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Publications of the
U. S. Department of Agriculture

Compiled by Doris Stockdale
Office of Information

Miscellaneous Circular No. 103
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United States
Government Printing Office
Washington
1927

Price Lists of Government Publications

The price lists are the only publications sent free by the Superintendent of Documents, Government Printing Office. They describe each available book or pamphlet, and embrace current topics as follows:

10. LAWS. Federal statutes and compilations of laws on various subjects.
11. FOODS AND COOKING. Dietary studies, nutrition, home economics, household recipes, canning, cold storage.
15. GEOLOGICAL SURVEY. Covers geology, mineral resources, and water supply.
16. NUMERICAL LISTS OF PUBLICATIONS OF DEPARTMENT OF AGRICULTURE. Found by subject in other lists.
18. ENGINEERING AND SURVEYING. Rivers, harbors, tides, terrestrial magnetism.
19. ARMY AND MILITIA. Manuals, aviation, ordnance pamphlets, pensions.
20. PUBLIC DOMAIN. Public lands, homesteading, railroad land grants.
21. FISHES. Includes oysters, lobsters, and mussels, sponges, and hatching experiments.
24. INDIANS. Ethnology, mounds, antiquities, Indian wars, etc.
25. TRANSPORTATION. Railroads, shipping, Postal Service, telegraphs, etc.
28. FINANCE. Foreign and domestic banking, currency, accounting, coinage, Liberty loan, War Finance Corporation.
31. EDUCATION. Includes agricultural and vocational education and libraries.
32. INSULAR POSSESSIONS. (Philippines, Hawaii, Porto Rico, Guam, Samoa, Virgin Islands); Cuba and Panama Canal.
33. LABOR. Cost of living, food control, employers' liability, strikes, wages, insurance, child labor, control of prices.
35. GEOGRAPHY AND EXPLORATIONS. Natural scenery, fossils, explorations, etc.
36. GOVERNMENT PERIODICALS, for which subscriptions are taken.
37. TARIFF. Compilation of acts, decisions, and speeches on tariff, taxation, income tax, etc.
38. ANIMAL INDUSTRY. Domestic animals, poultry and dairy industries.
39. BIRDS AND WILD ANIMALS. North American fauna, game, mice, squirrels, etc.
40. CHEMISTRY. Technical investigations of food adulterations, preservatives, and alcohol.
41. INSECTS. Includes bees, and insects harmful to agriculture and to health.
42. IRRIGATION, DRAINAGE, WATER POWER. Pumps, wells, erosion.
43. FORESTRY. Tree planting, management of national forests, lumber industry.

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PUBLICATIONS OF THE UNITED STATES DEPARTMENT OF AGRICULTURE

Compiled by DORIS STOCKDALE, Office of Information

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INTRODUCTION

This booklet contains a list of the available publications of the principal series issued by the United States Department of Agriculture. The several periodical publications are also described. Before ordering read carefully the instructions given on page 2.

Printing funds available to the department do not permit editions large enough to supply the great demand. After the free supply is exhausted, however, it usually is possible to buy publications from the Superintendent of Documents, Government Printing Office.

Many bulletins are included, the free supply of which is exhausted. These are indicated in each case by a star. Send direct to the Superintendent of Documents, inclosing the correct remittance, for all starred publications.

Once a month the department issues a card which gives a list of new publications printed. This card is sent free to all persons requesting it.

A list of new publications is also printed in the Official Record (see p. 91) each week, and once a month in Crops and Markets. (See p. 89.)

INSTRUCTIONS FOR ORDERING PUBLICATIONS

FREE FROM THE DEPARTMENT OF AGRICULTURE

Address your request to the Office of Information, Department of Agriculture, Washington, D. C.

Be sure to write your name and address plainly.

Indicate by both number and title the publications desired.

Because of the great demand for publications of the department, it is usually necessary to restrict each request to one copy each of not more than 10 bulletins. Restrict your order to those which would be of most value to you.

If you do not find bulletins listed on the subject in which you are interested, write the department for information.

Do *not* send money to the Department of Agriculture.

BY PURCHASE FROM THE SUPERINTENDENT OF DOCUMENTS

Address your order to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Be sure to write your name and address plainly.

Make a list giving number and title of each bulletin desired, quoting the price for each.

Inclose the proper remittance, which may be in the form of a postal money order, express money order, or New York draft. Do not send postage stamps or foreign money. Currency is sent only at sender's risk.

No charge is made for postage on publications forwarded to points in the United States and its possessions. For delivery to all foreign countries add postage amounting to one-third of the total cost. Foreign orders should be accompanied by international money order or New York draft.

Publications may be sold without limit as to number of copies to any applicant who agrees not to resell or distribute them at a profit.

CHARACTER OF THE DIFFERENT SERIES¹

Following is a short statement in regard to the nature of the material contained in each series of publications and a classified list of those available on February 1, 1927. Those indicated by a star are for sale only. See instructions for ordering on page 2.

Farmers' Bulletins.—Farmers' Bulletins cover a wide range of subject matter and are of interest to a great many classes of persons. They are written in popular language easily understood by the layman.

The distribution of four-fifths of all Farmers' Bulletins is controlled by Members of Congress and only one-fifth by the United States Department of Agriculture. Requests may be made direct to the Senator or Representative from your district or to the Department of Agriculture.

Department Bulletins.—Results of the scientific and research work of the United States Department of Agriculture are printed in the Department Bulletin series, which is intended for distribution chiefly to scientists and subject-matter specialists. In most cases a comparatively small edition is printed and only a limited number is available for free distribution.

Department Circulars.—The Department Circular series carries the less technical and more informal material of the same general nature as that in the Department Bulletin series.

Statistical Bulletins.—Statistical Bulletins consist of tables giving statistics relating to one or more closely related agricultural commodities. They also include, in so far as possible, statistics of production, movement from the farm, receipts at principal markets, reshipments, farm and market prices, exports and imports, production in foreign countries, and foreign market price. They are of interest to persons actually engaged in agricultural work, particularly marketing, or any business affected by agricultural production and marketing.

Miscellaneous Circulars.—Miscellaneous Circulars include those publications of a miscellaneous nature which do not fall within any of the other series of the department.

¹ See additional information on p. 110.

KEY TO CLASSIFICATION

Accounts, farm. See Farm management.
Airplanes, page 9.
Alfalfa. See Forage crops.
Almonds. See Nuts
Ants. See Insects, household.
Apples. See Fruits.
Artichoke. See Garden and truck crops.
Asparagus. See Garden and truck crops.
Avocado. See Fruits.
Baking. See Home economics.
Bamboo. See Trees and forestry.
Barberry. See Grains.
Barley. See Grains.
Barns. See Garden and truck crops.
Bats. See Insects, household.
Beans. See Garden and truck crops.
Beaver. See Birds and game.
Bedbugs. See Insects, household.
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Bees, page 10.
Bent grasses. See Forage crops.
Bermuda grass. See Forage crops and Weeds.
Birds, game, fur-bearing animals, page 11.
Blackberry. See Fruits, small.
Blueberry. See Fruits, small.
Boll weevil. See Fiber crops.
Book lice. See Insects, household.
Boys' and girls' club work. See Extension work.
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Broomcorn. See Grains.
Brown-tail moth. See Trees and forestry.
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Canning. See Home economics.
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Carpet grass. See Weeds.
Celery. See Garden and truck crops.
Centipede. See Insects, household.
Cereals. See Grains.
Chayote. See Garden and truck crops.
Cheese. See Dairying and Home economics.
Cherries. See Fruits, small.
Chicory. See Weeds.
Chiggers. See Insects, household.
Chinch bug. See Grains.
Chinese jujube. See Garden and truck crops.
Chrysanthemums. See Flowers.
Citrus fruit. See Fruits.
Climate. See Weather.
Clothing. See Home economics.
Clover. See Forage crops.

Cockroaches. See Insects, household.
Codling moth. See Fruits.
Coldframes. See Garden and truck crops.
Cold storage. See Marketing.
Community buildings. See Sociology.
Concrete. See Buildings and engineering.
Cooperation. See Marketing.
Corn. See Grains.
Cost of production. See Farm management.
Cotton. See Fiber Crops.
County agent work. See Extension work.
Cowpeas. See Forage crops.
Cranberries. See Fruits, small.
Creameries. See Dairying.
Credit. See Farm management.
Creosote. See Trees and forestry.
Crop estimates. See Statistics.
Crop rotation. See Soils.
Crop systems. See Farm management.
Crow. See Birds.
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Currants. See Fruits, small.
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Dasheen. See Garden and truck crops.
Dates. See Fruits.
Deer. See Birds and game.
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Dewberries. See Fruits, small.
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Directories. See Personnel.
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Mortgage. See Farm management.
Mosquitoes. See Insects, household.
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Motion pictures. See Extension work.
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 Turpentine. See Trees and forestry.
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CLASSIFIED LIST

The different series are designated by the respective symbols: Farmers' Bulletin, "FB"; Department Bulletin, "DB"; Department Circular, "DC"; Miscellaneous Circular, "MC"; Statistical Bulletin, "SB"; Yearbook Separate, "Yb. Sep." The year given after the title of each Yearbook Separate indicates the Yearbook of which it formed a part.

AIRPLANES

Department Bulletins:

Tests to produce an improved cotton airplane fabric.
 DB 882. 10¢.
 Decays and discolorations in airplane woods. DB 1128.
 20¢.

BEEF CATTLE

(See also Feeding Livestock)

Farmers Bulletins:

- Breeds of beef cattle. FB 612. 5¢.
- Judging beef cattle. FB 1068. 5¢.
- Growing beef on the farm. FB 1073. 5¢.
- Beef calf, its growth and development. FB 1135. 5¢.
- Beef-cattle barns. FB 1350. 5¢.
- Brahm (zebu) cattle. FB 1361. 5¢.
- Beef production in the Cotton Belt. FB 1379. 5¢.
- Beef-cattle production in range area. FB 1395. 10¢.
- Beef on the farm; slaughtering, cutting, curing. FB 1415. 5¢.
- Fattening beef calves. FB 1416. 5¢.

Department Bulletins:

- Raising and fattening beef calves in Alabama. DB 73. 5¢.
- Cut-over pine lands of South for beef-cattle production. DB 827. 15¢.

Miscellaneous Circulars:

- Grading up beef cattle at Sni-A-Bar Farms. MC 74. 10¢.

Yearbook Separates:

- Production of beef in the South. 1913. Yb. Sep. 627.* 10¢.
- Growth of beef-cattle industry in South. 1917. Yb. Sep. 749. 5¢.
- Our beef supply. 1921. Yb. Sep. 874. 20¢.

BEES

Farmers Bulletins:

- Bees. FB 447. 5¢.
- Outdoor wintering of bees. FB 695.* 5¢.
- Transferring bees to modern hives. FB 961. 5¢.
- Control of European foulbrood. FB 975. 5¢.
- Preparation of bees for outdoor wintering. FB 1012. 5¢.
- Wintering bees in cellars. FB 1014. 5¢.
- Commercial comb-honey production. FB 1039. 5¢.
- Control of American foulbrood. FB 1084. 5¢.
- Swarm control. FB 1198. 5¢.
- Beekeeping in the clover region. FB 1215. 5¢.
- Beekeeping in the buckwheat region. FB 1216. 5¢.
- Beekeeping in the tulip-tree region. FB 1222. 5¢.

Department Bulletins:

- Temperature of the honeybee cluster in winter. DB 93.
- Sacbrood. DB 431.* 10¢.
- Behavior of bees in colonies affected by European foulbrood. DB 804.* 5¢.
- American foulbrood. DB 809. 15¢.
- European foulbrood. DB 810.* 10¢.
- Heat production of honeybees in winter. DB 988.* 5¢.
- Growth and feeding of honeybee larvae. DB 1222. 10¢.
- Flight activities of the honeybee. DB 1328.* 10¢.
- Effect of weather upon change in weight of colony of bees during honey flow. DB 1339. 10¢.
- Brood-rearing cycle of the honeybee. DB 1349.* 10¢.
- Effects on honeybees of spraying fruit trees with arsenicals. DB 1364.* 5¢.

Department Circulars:

- Occurrence of diseases of adult bees. DC 218. 5¢.
- Insulating value of commercial double-walled beehives. DC 222. 5¢.
- Occurrence of diseases of adult bees. DC 287. 5¢.
- Bee-louse, *Braula coeca*. DC 334.* 5¢.
- Color grading of honey. DC 364. 5¢.

BIRDS, GAME, FUR-BEARING ANIMALS

Farmers Bulletins:

- Importation of game birds and eggs for propagation. FB 197.* 5¢.
- Deer farming in United States. FB 330.* 5¢.
- English sparrow as a pest. FB 493. 5¢.
- Some common game, aquatic, and rapacious birds in relation to man. FB 497. 5¢.
- Food of well-known birds of forest, farm, and garden. FB 506. 5¢.
- Fifty common birds of farm and orchard. FB 513.* 15¢.
- Common mole of eastern United States. FB 583.* 5¢.
- Economic value of North American skunks. FB 587. 5¢.
- How to attract birds in Northeastern States. FB 621. 5¢.
- Some common birds useful to the farmer. FB 630. 5¢.
- Squab raising. FB 684. 5¢.
- Common birds of Southeastern States in relation to agriculture. FB 755. 5¢.
- How to attract birds in Northwestern States. FB 760. 5¢.
- How to attract birds in Middle Atlantic States. FB 844. 5¢.
- Muskrat as fur bearer, with notes on its use as food. FB 869. 5¢.
- How to attract birds in East Central States. FB 912. 5¢.
- The crow in its relation to agriculture. FB 1102. 5¢.
- Community bird refuges. FB 1239. 5¢.
- American moles as agricultural pests and as fur producers. FB 1247. 5¢.
- Canaries, their care and management. FB 1327. 5¢.
- Homing pigeons, their training. FB 1373. 5¢.
- Homes for birds. FB 1456. 5¢.
- Fur laws for season 1925-26. FB 1469. 5¢.
- Game laws for season 1926-27. FB 1505. 5¢.
- Fur laws for season 1926-27. FB 1515. 5¢.
- Rabbit skins for fur. FB 1519. 5¢.

Department Bulletins:

- Distribution and migration of North American rails and their allies. DB 128. 10¢.
- Bird migration. DB 185. 10¢.
- Preliminary census of birds of United States. DB 187.* 5¢.
- Eleven important wild-duck foods. DB 205. 5¢.
- Mortality among waterfowl around Great Salt Lake. DB 217.* 5¢.
- Distribution and migration of North American gulls and their allies. DB 292.* 15¢.

Department Bulletins—Continued.

- Propagation of wild-duck food. DB 465. 10¢.
 Food habits of swallows. DB 619.* 5¢.
 Duck sickness in Utah. DB 672.* 10¢.
 Food habits of mallard ducks of U. S. DB 720.* 5¢.
 Lead poisoning in waterfowl. DB 793. 5¢.
 Waterfowl and their food plants in sand-hill region of Nebraska. DB 794.* 15¢.
 Food habits of seven species of American shoal-water ducks. DB 862.* 25¢.
 Economic value of the starling in United States. DB 868.* 25¢.
 Wild ducks and duck foods of Bear River marshes, Utah. DB 936.* 5¢.
 Beaver habits, beaver control, and possibilities in beaver farming. DB 1078. 15¢.
 Reindeer in Alaska. DB 1089.* 25¢.
 Migration records from wild ducks and other birds banded in Salt Lake Valley, Utah. DB 1145.* 5¢.
 Silver-fox farming. DB 1151. 15¢.
 Report on bird censuses in United States, 1916-1920. DB 1165.* 5¢.
 Food and economic relations of North American grebes. DB 1196. 5¢.
 Food habits of some winter bird visitants. DB 1249. 10¢.
 Returns from banded birds, 1920-1923. DB 1268.* 10¢.
 Status of pronghorned antelope, 1922-1924. DB 1346. 15¢.
 Blue-fox farming in Alaska. DB 1350. 10¢.
 Food habits of vireos; insectivorous birds. DB 1355. 10¢.
 Food of American phalaropes, avocets, and stilts. DB 1359. 10¢.
 Progress of reindeer grazing investigations in Alaska. DB 1423. 15¢.

Department Circulars:

- Annual report of Governor of Alaska on game law, 1919. DC 88.* 5¢.
 Fishing, hunting, camping on Cascade National Forest. DC 104.* 10¢.
 Pisgah National Game Preserve. DC 161.* 5¢.
 Annual report of Governor of Alaska on game law, 1920. DC 168.* 5¢.
 Migratory bird treaty act, extract from charge to grand jury in District Court for Middle District of Alabama at Opelika, April 4, 1921. DC 182.* 5¢.
 Migratory bird treaty act. United States v. Joseph H. Lumpkin. DC 202.* 5¢.
 Eradiction of lice on pigeons. DC 213.* 5¢.
 Annual report of Governor of Alaska on game law, 1921. DC 225. 5¢.
 Annual report of Governor of Alaska on game law, 1922. DC 260. 5¢.
 Purpose of bird censuses, and how to take them. DC 261.* 5¢.
 Spread of European starling in North America. DC 336.* 5¢.
 Directory of officials and organizations concerned with protection of birds and game, 1926. DC 398. 5¢.

Miscellaneous Circulars:

- Local names of migratory game birds. MC 13. 20¢.
 Instructions for banding birds. MC 18.* 10¢.
 Wichita National Forest and game preserve. MC 36.*
 5¢.
 Construction of Biological Survey beaver trap. MC 69.
 5¢.

Yearbook Separates:

- Great Plains waterfowl breeding grounds. 1917. Yb. Sep.
 723. 5¢.
 Federal protection of migratory birds. 1918. Yb. Sep.
 785.* 5¢.
 Trapping on the farm. 1919. Yb. Sep. 823. 5¢.
 Conserving wild animals and birds. 1920. Yb. Sep. 836.
 5¢.
 Farm help from the birds. 1920. Yb. Sep. 843. 5¢.

Miscellaneous:

- Hawks and owls from the standpoint of the farmer. Biol-
 ogy Cir. 61. 5¢.

BUILDINGS AND ENGINEERING

Farmers Bulletins:

- Construction and use of farm weirs. FB 813. 5¢.
 Pit silos. FB 825. 5¢.
 Farm reservoirs. FB 828. 5¢.
 Potato storage and storage houses. FB 847. 5¢.
 Homemade silos. FB 855. 5¢.
 Fire prevention and fire fighting on the farm. FB 904.
 5¢.
 Water systems for farm homes. FB 941.* 10¢.
 Plans for rural community buildings. FB 1173. 10¢.
 One-register furnaces. FB 1174. 5¢.
 Operating home heating plant. FB 1194.* 5¢.
 Farm dairy houses. FB 1214. 5¢.
 Sewage and sewerage of farm homes. FB 1227. 5¢.
 Chimneys and fireplaces. FB 1230. 5¢.
 Flue-heated tobacco barns for sweet-potato storage. FB
 1267. 5¢.
 Plain concrete for farm use. FB 1279. 5¢.
 Greenhouse construction and heating. FB 1318. 5¢.
 Dairy-barn construction. FB 1342. 5¢.
 Beef-cattle barns. FB 1350. 5¢.
 Principles of dairy-barn ventilation. FB 1393. 5¢.
 Poultry house construction. FB 1413. 5¢.
 Farm plumbing. FB 1426. 10¢.
 Farmstead water supply. FB 1448. 10¢.
 Painting on the farm. FB 1452. 5¢.
 Simple plumbing repairs in the home. FB 1460. 5¢.
 Small concrete construction on the farm. FB 1480. 10¢.
 Practical hog houses. FB 1487. 5¢.
 Rammed earth walls for buildings. FB 1500. 5¢.
 Protection of buildings and farm property from lightning
 FB 1512. 10¢.

Department Bulletins:

- Flumes and fluming. DB 87.* 10¢.
 Oil-mixed Portland cement concrete. DB 230.* 10¢.
 Cotton warehouse construction. DB 277.* 10¢.
 Flow of water in wood-stave pipe. DB 376. 25¢.

14 Classified List—Buildings and Engineering

Department Bulletins—Continued.

- Rural community buildings in United States. DB 825.* 10¢.
Flow of water in concrete pipe. DB 852. 25¢.
Flow of water in drain tile. DB 854. 25¢.
Use of concrete pipe in irrigation. DB 906.* 20¢.
Fungi of economic importance in decay of building timbers. DB 1053.* 15¢.
Farmer's short-box measuring flume. DB 1110. 5¢.
Experimental production of straw gas. DB 1203. 5¢.

Department Circulars.

- TNT as a blasting explosive. DC 94.* 10¢.
Use of explosives in blasting stumps. DC 191. 5¢.
Standard specifications for corrugated metal pipe culverts. DC 331. 5¢.
Domestic oil burner. DC 405. 10¢.

Yearbook Separates:

- Sewage disposal on the farm. 1916. Yb. Sep. 712.* 5¢.
Electric light and power from small streams. 1918. Yb. Sep. 770.* 5¢.
Electric light and power in farm home. 1919. Yb. Sep. 799. 5¢.
Securing a dry cellar. 1919. Yb. Sep. 824. 10¢.

DAIRYING

(See also Feeding Livestock)

Farmers Bulletins:

- Milk fever, its simple and successful treatment. FB 206. 5¢.
Production of clean milk. FB 602. 5¢.
Eradication of cattle tick necessary for profitable dairying. FB 639.* 5¢.
Feeding of dairy cows. FB 743. 5¢.
Simple steam sterilizer for farm dairy utensils. FB 748.* 5¢.
Cooling milk and cream on the farm. FB 976. 5¢.
Cooperative bull associations. FB 993. 5¢.
Straining milk. FB 1019.* 5¢.
Farm dairy houses. FB 1214. 5¢.
Cleaning milking machines. FB 1315. 5¢.
Feeding and management of young dairy stock. FB 1336. 5¢.
Dairy-barn construction. FB 1342. 5¢.
Principles of dairy-barn ventilation. FB 1393. 5¢.
Care and management of dairy bulls. FB 1412. 5¢.
Udder diseases of dairy cows. FB 1422. 5¢.
Dairy cattle breeds. FB 1443. 5¢.
Cow-testing associations and records. FB 1446. 5¢.
Care and management of dairy cows. FB 1470. 10¢.
Washing and sterilizing farm milk utensils. FB 1473. 5¢.

Department Bulletins:

- Fermented milks. DB 319.* 5¢.
Status of Pasteurization of milk. DB 342. 5¢.
Cooling hot-bottled Pasteurized milk by forced air. DB 420.* 10¢.
Accounting records for country creameries. DB 559.* 5¢.

Department Bulletins—Continued.

- Manufacture of cottage cheese in milk plants. DB 576. 5¢.
- Guide for formulating a milk ordinance. DB 585.* 5¢.
- Varieties of cheese. DB 608.* 10¢.
- Production of milk of low bacterial content. DB 642.* 15¢.
- Casein from buttermilk or skim milk. DB 661.* 5¢.
- Open shed compared with closed barn for dairy cows. DB 736.* 5¢.
- Fuel in milk plants and creameries. DB 747. 10¢.
- City milk plants, construction and arrangement. DB 849. 10¢.
- Classification of ledger accounts for creameries. DB 865. 10¢.
- Milk-plant equipment. DB 890. 10¢.
- Sprogenes test as index of contamination of milk. DB 940.* 15¢.
- Alcohol test as means of determining quantity of milk for condenseries. DB 944. 5¢.
- Manufacture of cow's milk Roquefort cheese. DB 970.* 10¢.
- Milk-plant operation. DB 973. 10¢.
- Relation of production to income from dairy cows. DB 1069. 5¢.
- Influence of season of freshening on production and income from dairy cows. DB 1071.* 5¢.
- Hypochlorities and chloramins in milk and cream. DB 1114.* 5¢.
- Manufacture of Camembert cheese. DB 1171. 5¢.
- Relative utilization of energy in milk production and body increase of dairy cows. DB 1281. 10¢.
- Effect of various factors on creaming ability of market milk. DB 1344. 5¢.
- Effect of age and development on butterfat production of register-of-merit Jersey and advanced-register Guernsey cattle. DB 1352.* 5¢.

Department Circulars:

- Trend of dairy cattle industry in the United States and other countries. DC 7.* 5¢.
- Trend of butter industry in the United States and other countries. DC 70. 5¢.
- Trend of cheese industry in the United States and other countries. DC 71.* 5¢.
- Inspection of milk supplies. DC 276. 10¢.
- Better cows from better sires. DC 368. 5¢.
- Use of camera in studying growth and development of dairy animals. DC 371. 10¢.
- Concentrated sour skim milk. DC 404. 5¢.

Miscellaneous Circulars:

- The cow tester's handbook. MC 26. 5¢.

Yearbook Separates:

- Renovated butter, origin and history. 1905. Yb. Sep. 390.* 5¢.
- Experiment in community dairying. 1916. Yb. Sep. 707.* 5¢.
- Cheesemaking brings prosperity to farmers in southern mountains. 1917. Yb. Sep. 737.* 5¢.

Yearbook Separates—Continued.

How the dairy cow brought prosperity in wake of boll weevil. 1917. Yb. Sep. 744*. 5¢.

Cows that make the income climb. 1920. Yb. Sep. 853.* 5¢.

Milk for midshipmen. 1920. Yb. Sep. 857.* 5¢.

The dairy industry. 1922. Yb. Sep. 879. 15¢.

DISINFECTANTS**Farmers Bulletins:**

Some common disinfectants. FB 926. 5¢.

Disinfection of stables. FB 954. 5¢.

Department Bulletins:

Chemical and physical methods for control of saponified cresol solutions. DB 1308. 5¢.

Deterioration of commercially packed chlorinated lime. DB 1389. 5¢.

DOGS**Farmers Bulletins:**

Rabies or hydrophobia. FB 449. 5¢.

Sheep-killing dogs. FB 1268. 5¢.

Breeds of dogs. FB 1491. 5¢.

Department Circulars:

Parasites and parasitic diseases of dogs. DC 338. 10¢.

DUST EXPLOSIONS**Department Bulletins:**

Dust explosions and fires in grain separators in Pacific Northwest. DB 379. 10¢.

Grain-dust explosions, investigation in experimental attrition mill at Pennsylvania State College. DB 681. 10¢.

Dust control in grain elevators. DB 1373. 10¢.

Department Circulars:

Installation of dust-collecting fans on threshing machines for prevention of explosions and fires and for grain cleaning. DC 98. 5¢.

Unprotected electric lights, fire and explosion hazard in dusty industries. DC 171. 5¢.

EDUCATION

(See also list of maps and charts, page 96.)

Farmers Bulletins:

Tree planting on rural school grounds. FB 134*. 5¢.

Shool garden. FB 218. 5¢.

Forest nurseries for schools. FB 423.* 5¢.

Testing farm seeds in home and rural school. FB 428. 5¢.

Collection and preservation of plant material for use in study of agriculture. FB 586. 5¢.

Collection and preservation of insects and other material for use in study of agriculture. FB 606. 5¢.

Arbor Day; its purpose and observance. FB 1492. 5¢.

Department Bulletins:

- Extension course in vegetable foods, for self-instructed classes in movable schools of agriculture. DB 123. 10¢.
- Correlating agriculture with public-school subjects in Southern States. DB 132.* 10¢.
- Lessons in elementary agriculture for Alabama schools. DB 258.* 5¢.
- Correlating agriculture with public-school subjects in Northern States. DB 281.* 10¢.
- Exercises with plants and animals for southern rural schools. DB 305.* 15¢.
- Extension course in soils. DB 355.* 10¢.
- School credit for home practice in agriculture. DB 385.* 5¢.
- Lessons on tomatoes for rural schools. DB 392.* 5¢.
- Judging dairy cows as subject of instruction in secondary schools. DB 434.* 5¢.
- Judging horses as subject of instruction in secondary schools. DB 487.* 10¢.
- Exercises in farm handicraft for rural schools. DB 527.* 10¢.
- First-year course in home economics for southern schools. DB 540.* 10¢.
- Courses in secondary agriculture for southern schools, third and fourth years. DB 592.* 5¢.
- Lessons on pork production for elementary schools. DB 646.* 5¢.
- Lessons on potatoes for elementary rural schools. DB 784.* 5¢.
- Forestry lessons on home woodlands. DB 863. 10¢.

Department Circulars:

- How teachers may use FB 1044, "City home garden." DC 33. 5¢.
- How teachers may use FB 602, "Clean milk." DC 67.* 5¢.
- How teachers may use publications on control of disease and insect enemies of home garden. DC 68. 5¢.
- How teachers may use FB 876, "Making butter on the farm." DC 69. 5¢.
- How teachers may use FB 1087, "Beautifying the farmstead." DC 155.* 5¢.
- How teachers may use FB 1175, "Better seed corn." DC 156. 5¢.
- How teachers may use FB 1148, "Cowpeas." DC 157. 5¢.
- Educational milk-for-health campaigns. DC 250. 10¢.
- How to conduct milk and cream contests. DC 384. 5¢.

Miscellaneous Circulars:

- Demonstration courses in kiln drying, boxing and crating, gluing of wood, wood properties, and uses. MC 8.* 5¢.
- Posters prepared by school children in milk-for-health programs. MC 21. 5¢.
- Demonstration courses in wood utilization. MC 29.* 5¢.

Miscellaneous Circulars—Continued.

Lessons on cotton for elementary schools. MC 43. 10¢.

Motion pictures of U. S. Department of Agriculture, list of films and how to obtain them. MC 86. 10¢.

Yearbook Separates:

Agriculture in public high schools. 1912. Yb. Sep. 607.* 5¢.

Reorganization of the country school. 1919. Yb. Sep. 812.* 5¢.

EXPERIMENT STATION WORK

Department Bulletins:

Fall irrigation at Scottsbluff reclamation project. DB 133.* 5¢.

Alkali land in Huntley reclamation project, Montana. DB 135.* 5¢.

Crop production on fallow land at San Antonio. DB 151.* 5¢.

Tillage and rotation experiments at Nephi, Utah. DB 157.* 5¢.

Horticultural experiments in San Antonio field station. DB 162.* 5¢.

Crop rotation and cultural methods at Edgeley, N. Dak. DB 991.* 5¢.

List of bulletins of agricultural experiment stations from establishment to end of 1920. DB 1199.* 20¢.

Same for calendar years 1921 and 1922. Suppl. 1, DB 1199.* 5¢.

Same for calendar years 1923 and 1924. Suppl. 2, DB 1199. 10¢.

Tillage and rotation experiments at Dickinson, Hettinger, and Williston, N. Dak. DB 1293. 5¢.

Report of Northern Great Plains Field Station, 1913-1922. DB 1301.* 15¢.

Crop rotation and cultural methods at Akron (Colo.) Field Station. DB 1304.* 5¢.

Work of Sheridan Field Station, 1917 to 1922, inc. DB 1306. 5¢.

Abbreviations employed in Experiment Station Record for titles of periodicals. DB 1330. 20¢.

Work of Northern Great Plains Field Station, 1923. DB 1337. 5¢.

Fertilizer experiments with alfalfa, Yuma Field Station, Bard, Calif., 1919-1925. DB 1418. 5¢.

Dry-land gardening at Northern Great Plains Field Station, Mandan, N. Dak. DB 1427.* 5¢.

Department Circulars:

Work on Belle Fourche experiment farm, 1918. DC 60.* 5¢.

Work of San Antonio experiment farm, 1918. DC 73.* 5¢.

Work of Yuma experiment farm, 1918. DC 75.* 10¢.

Work of Newlands reclamation experiment farm, 1918. DC 80. 5¢.

Work of Huntley experiment farm, 1918. DC 86.* 5¢.

Work of Umatilla experiment farm, 1918 and 1919. DC 110.* 5¢.

Work of Newlands experiment farm, 1919. DC 136. 5¢.

Classified List—Experiment Station Work 19

Department Circulars—Continued.

- Work of Huntley experiment farm, 1919. DC 147.* 5¢.
Work of Scottsbluff experiment farm, 1918 and 1919.
DC 173.* 5¢.
Work of Huntley experiment farm in 1920. DC 204.* 5¢.
Work of San Antonio experiment farm, 1919 and 1920.
DC 209.* 10¢.
Work of Yuma experiment farm, 1919 and 1920. DC 221.*
10¢.
Federal legislation, regulations, and rulings affecting
land-grant colleges and experiment stations. DC 251. 5¢.
Work of Newlands experiment farm, 1920 and 1921.
DC 267.* 5¢.
Work of Huntley experiment farm, 1921. DC 275.* 5¢.
Crop tests at cooperative testing station, Sacaton, Ariz.
DC 277. 10¢.
Work of Scottsbluff experiment farm, 1920 and 1921.
DC 289.* 5¢.
Work of Huntley experiment farm, 1922. DC 330. 5¢.
Work of Belle Fourche experiment farm, 1919–1922.
DC 339.* 10¢.
Work of Umatilla experiment form, 1920, 1921, 1922.
DC 342.* 5¢.
Work of Newlands experiment farm 1922 and 1923.
DC 352. 5¢.
Work of Huntley field station, 1923–1924. DC 369. 10¢.
Agricultural investigations at the United States field sta-
tion, Sacaton, Ariz., 1922, 1923, 1924. DC 372. 10¢.

Yearbook Separates:

- Practical results of experiment-station work. 1902.
Yb. Sep. 292.* 5¢.
Government reclamation projects. 1916. 5¢. Yb. Sep.
690. 5¢.

EXTENSION WORK

Farmers Bulletins:

- Demonstration work on southern farms. FB 422.* 5¢.
Boys' and girls' poultry clubs. FB 562.* 5¢.

Department Bulletins:

- Farmers' institute work in 1914. DB 269.* 5¢.
Effectiveness of extension in reaching rural people.
DB 1384. 5¢.

Department Circulars:

- Sewing for girls' club work. DC 2.* 5¢.
Organization of county for extension work, farm-bureau
plan. DC 30.* 5¢.
Boys' agricultural clubs in Southern States. DC 38. 5¢.
Boys' and girls' club work; home vegetable garden.
DC 48.* 5¢.
Boys' and girls' club work, Northern and Western States,
1918. DC 66. 5¢.
County agent work; Northern and Western States, 1919.
DC 106.* 10¢.
Field and office records for county extension workers.
DC 107. 5¢.
Government exhibit at 1920 National Dairy Show.
DC 139.* 5¢.
Statistics of cooperative extension work, 1920–21.
DC 140.* 5¢.

Department Circulars—Continued.

- Home demonstration work, Northern and Western States, 1919. DC 141.* 5¢.
- Boys' and girls' club work, Northern and Western States, 1919. DC 152.* 5¢.
- Home demonstration work, Northern and Western States, 1920. DC 178.* 5¢.
- County agent work, Northern and Western States, 1920. DC 179.* 5¢.
- Extension work among negroes, 1920. DC 190. 5¢.
- Boys' and girls' club work, Northern and Western States, 1920. DC 192. 10¢.
- Statistics of cooperative extension work, 1921-22. DC 203.* 5¢.
- County agent work, Northern and Western States, 1921. DC 244. 10¢.
- Extension work in Southern States, 1903-1921. DC 248.* 10¢.
- Statistics of cooperative extension work, 1922-23. DC 253.* 5¢.
- Boys' and girls' club work, Northern and Western States, 1921. DC 255. 5¢.
- Extension work in agricultural engineering, 1922. DC 270. 5¢.
- Home demonstration work, Northern and Western States, 1921. DC 285. 5¢.
- Farm management extension, early development and status in 1922. DC 302. 5¢.
- Statistics of cooperative extension work, 1923-24. DC 306.* 5¢.
- Extension program in range livestock, dairying, and human nutrition for Western States. DC 308. 5¢.
- Boys' and girls' club work, 1922. DC 312.* 10¢.
- Home demonstration work, 1922. DC 314. 10¢.
- Cooperative extension work, reported through county agents, 1922. DC 316. 10¢.
- Extension work in plant pathology, 1923. DC 329.* 5¢.
- Extension program in crop production to reinforce range livestock, dairying, and human nutrition for Western States. DC 335. 5¢.
- Extension work in agronomy, 1923. DC 343. 5¢.
- Extension work in agricultural engineering, 1923. DC 344.* 5¢.
- Farm-forestry extension, early development and status in 1923. DC 345. 5¢.
- Extension work with fruits, vegetables, and ornamentals, 1923. DC 346.* 5¢.
- Cooperative extension work, 1923. DC 347. 10¢.
- Boys' and girls' 4-H club work, 1923. DC 348. 10¢.
- Extension work in foods and nutrition, 1923. DC 349. 5¢.
- Extension work among negroes, by negro agents. DC 355. 5¢.
- Extension program in home management and farm management for Western States. DC 375. 5¢.
- How to prepare and display extension exhibits. DC 385.* 10¢.
- Home demonstration work, 1923. DC 399. 10¢.

Miscellaneous Circulars:

- County agricultural agent work under Smith-Lever Act, 1914-1924. MC 59. 10¢.
A decade of negro extension work, 1914-1924. MC 72. 10¢.
Boys' and girls' 4-H club work. MC 77.* 10¢.
Use of motion pictures in extension work. MC 78. 10¢.
Boys' and Girls' 4-H Club Work under Smith-Lever Act, 1914-1924. MC 85. 15¢.
Motion pictures of U. S. Department of Agriculture, list of films and how to obtain them. MC 86. 10¢.

Yearbook Separates:

- Effect of home demonstration work in South. 1916. Yb. Sep. 710.* 5¢.
Home demonstration bears fruit in South. 1920. Yb. Sep. 833.* 5¢.

FARM MANAGEMENT

Farmers Bulletins:

- Successful southern hay farm. FB 312.* 5¢.
Declaration of governors for conservation of natural resources. FB 340.* 5¢.
Farm bookkeeping. FB 511. 5¢.
Example of intensive farming in Cotton Belt. FB 519.* 5¢.
System of farm cost accounting. FB 572. 5¢.
How to use farm credit. FB 593.* 5¢.
Pasture and grain crops for hogs in Pacific Northwest. FB 599.* 5¢.
Corn Belt farming system which saves harvest labor by hogging down crops. FB 614. 5¢.
Grain farming in Corn Belt with livestock as side line. FB 704.* 5¢.
Sandy-land farms in northern Indiana and southern Michigan. FB 716. 5¢.
Economic study of farm tractor in Corn Belt. FB 719.* 5¢.
Waste land and wasted land on farms. FB 745.* 5¢.
The farmers' income. FB 746.* 5¢.
Management of muck-land farms in Indiana and Michigan. FB 761. 5¢.
Use of dairy for farm accounts. FB 782. 5¢.
How Federal farm loan act benefits farmer. FB 792.* 5¢.
How livestock is handled in blue-grass region of Kentucky. FB 812. 5¢.
Management of common storage houses for apples in Pacific Northwest. FB 852.* 5¢.
Human food from an acre of staple farm products. FB 877.* 5¢.
Successful community drying plant. FB 916.* 5¢.
Simple way to increase crop yields. FB 924. 5¢.
Tractor experience in Illinois under Corn Belt conditions. FB 963.* 5¢.
Farm practices increase crop yields in Kentucky and Tennessee. FB 981. 5¢.

22 *Classified List—Farm Management*

Farmers Bulletins—Continued.

- Systems of hog farming in Southeastern States. FB 985. 5¢.
Farm practices increase crop yields in Gulf-coast region. FB 986. 5¢.
Labor-saving practices in haymaking. FB 987. 5¢.
Better use of man labor on the farm. FB 989.* 5¢.
Use of machinery in cutting corn. FB 992.* 5¢.
Crop systems for Arkansas. FB 1000. 5¢.
Gas tractor in eastern farming. FB 1004.* 5¢.
Saving farm labor by harvesting crops with livestock. FB 1008. 5¢.
Hay stackers used in East and South to save labor. FB 1009. 5¢.
Family and farm supplies on the cotton farm. FB 1015. 5¢.
Farm tractor in the Dakotas. FB 1035. 5¢.
Saving man labor in sugar-beet fields. FB 1042. 5¢.
Laying out fields for tractor plowing. FB 1045. 5¢.
Making woodlands profitable in Southern States. FB 1071. 5¢.
Home supplies furnished by the farm. FB 1082.* 5¢.
Selecting a farm. FB 1088. 5¢.
Forestry and farm income. FB 1117. 5¢.
Factors that make for success in farming in South. FB 1121. 5¢.
Planning the farmstead. FB 1132. 5¢.
Method of analyzing the farm business. FB 1139. 5¢.
The farm-lease contract. FB 1164. 5¢.
Farm inventories. FB 1182. 5¢.
Motor trucks on eastern farms. FB 1201.* 5¢.
Farm land available for settlement. FB 1271. 5¢.
Renting dairy farms. FB 1272. 5¢.
Tractors on southern farms. FB 1278. 5¢.
Distribution of types of farming in U. S. FB 1289. 5¢.
What tractors and horses do on Corn-Belt farms. FB 1295.* 5¢.
Changes effected by tractors on Corn-Belt farms. FB 1296. 5¢.
Cost of using tractors on Corn-Belt farms. FB 1297.* 5¢.
Cost of using horses on Corn-Belt farms. FB 1293. 5¢.
Shall I buy a tractor for a Corn-Belt farm? FB 1299. 5¢.
Choosing a tractor for a Corn-Belt farm. FB 1300. 5¢.
Motor trucks and Corn-Belt farms. FB 1314. 5¢.
Community cotton production. FB 1384. 5¢.
Buying a farm in undeveloped region. FB 1385. 5¢.
Idle land and costly timber. FB 1417. 5¢.
Successful farming on 80-acre farms in central Indiana. FB 1421. 5¢.
Profit for wheat farmers of central Kansas. FB 1440. 5¢.
Successful farming on 160-acre farms in central Indiana. FB 1463. 5¢.
Effective haying equipment and practices; northern great plains and intermountain regions. FB 1525. 10¢.

Department Bulletins:

- Successful farm management in southern New York.
DB 32.* 5¢.
- Farm-management survey of three representative areas in Indiana, Illinois, Iowa. DB 41.* 10¢.
- Profits in farming on irrigated areas in Utah Lake Valley.
DB 117.* 5¢.
- Factors affecting range management in New Mexico.
DB 211.* 15¢.
- Effect of time of plowing small-grain stubble in eastern Colorado. DB 253.* 5¢.
- Crop production in Great Plains area. DB 268.* 5¢.
- Farm management in Chester County, Pa. DB 341.* 15¢.
- Normal day's work of farm implements, workmen, and crews in western New York. DB 412.* 5¢.
- Management of 178 farms in central Kentucky. DB 482.* 5¢.
- Farming in Sumter County, Ga. DB 492.* 10¢.
- Cost of producing apples in western Colorado, 1914-15.
DB 500.* 10¢.
- Theory of correlation as applied to farm-survey data on fattening baby beef. DB 504.* 5¢.
- Seasonal distribution of farm labor in Chester County, Pa.
DB 528.* 10¢.
- Validity of survey method of research in farm management. DB 529.* 5¢.
- Farmers' mutual fire insurance company. DB 530. 5¢.
- Ten dairy farms in blue-grass region of Kentucky. DB 548.* 5¢.
- Haymaking crews and labor costs. DB 578.* 10¢.
- Farm management on irrigated land in Provo area, Utah.
DB 582.* 10¢.
- Value of small plot of ground to laboring man. DB 602.* 5¢.
- Cropping systems for moister portion of eastern Washington and Oregon and northern Idaho. DB 625. 5¢.
- Factors of successful farming near Monett, Mo. DB 633. 5¢.
- Production of hay in Steuben County, N. Y., and Washington County, Pa. DB 641.* 5¢.
- Farm management in Brooks County, Ga. DB 648.* 10¢.
- Farm management in Anderson County, S. C. DB 651.* 5¢.
- Farm organization in irrigated valleys of southern Arizona.
DB 654.* 10¢.
- Farm management of cotton farms of Ellis County, Tex.
DB 659.* 10¢.
- Farm management in Lenawee County, Mich. DB 694.* 10¢.
- Management of farms in Willamette Valley, Oreg. DB 705. 5¢.
- Study of farming in southwestern Kentucky. DB 713.* 5¢.
- Farm practices in grain farming in North Dakota. DB 757.* 10¢.

Department Bulletins—Continued.

- Farmers' mutual fire insurance companies. DB 786. 5¢.
 Standard day's work in central Illinois, performance of implements and crews as indicated by reports from 600 farms in a typical Corn-Belt area. DB 814.* 10¢.
 Records of local farmers' mutual fire insurance companies. DB 840. 5¢.
 Economic study of small farms near Washington, D. C. DB 848. 5¢.
 Rent contracts in typical countries of the Wheat Belt. DB 850.* 5¢.
 Cost of producing apples in five counties in western New York, 1910-1915. DB 851.* 10¢.
 Management of farms in northwestern Pennsylvania. DB 853.* 10¢.
 Farm land values in Iowa. DB 874. 10¢.
 Experience of eastern farmers with motor trucks. DB 910.* 10¢.
 Hail insurance of farm crops. DB 912. 10¢.
 The western farmer's water right. DB 913. 5¢.
 Farm practice in growing field crops in three sugar-beet districts of Colorado. DB 917.* 20¢.
 Farm profits, figures from same farms for series of years, Washington County, Ohio. Clinton County, Ind. Dane County, Wis. DB 920.* 15¢.
 Corn-Belt farmers' experience with motor trucks. DB 931.* 10¢.
 Farm management in Ozark region of Missouri. DB 941.* 15¢.
 Cost of producing wheat on 481 farms in North and South Dakota, Minnesota, Kansas, Nebraska, Missouri for crop year 1919. DB 943.* 15¢.
 Standards of labor on hill farms of Louisiana. DB 961. 10¢.
 Cost of producing sugar beets in Utah and Idaho, 1918-19. DB 963.* 10¢.
 Buying farms with land-bank loans. DB 968.* 5¢.
 Methods of conducting cost of production and farm organization studies. DB 994.* 5¢.
 Cost and utilization of power on farms where tractors are owned, 286 farms, Ohio, Indiana, Illinois, 1920. DB 997. 10¢.
 Labor and material requirements of field crops. DB 1000. 10¢.
 Relation of land tenure to use of arid grazing lands of Southwestern States. DB 1001.* 15¢.
 Harvest labor problem in the Wheat Belt. DB 1020. 10¢.
 Farm management in Sumter County, Ga. DB 1034. 20¢.
 Crop insurance; risks, losses, principles of protection. DB 1043. 5¢.
 Farm-mortgage loans by banks, insurance companies, and other agencies. DB 1047.* 5¢.
 Bank loans to farmers on personal and collateral security. DB 1048.* 5¢.
 Farm ownership and tenancy in black prairie of Texas. DB 1068.* 10¢.
 Farm management in Catawba County, N. C. DB 1070. 5¢.

Department Bulletins—Continued.

- One-variety cotton communities. DB 1111.* 10¢.
- Cost of milk production of 48 Wisconsin farms. DB 1144.* 5¢.
- Labor requirements of Arkansas crops. DB 1181. 15¢.
- Costs and farm practices in producing potatoes on 461 farms in Minnesota, Wisconsin, Michigan, New York, and Maine, 1919. DB 1188.* 10¢.
- Cost of producing winter wheat in central Great Plains. DB 1198. 10¢.
- Tractors and horses in winter Wheat Belt, Oklahoma, Kansas, Nebraska. DB 1202. 10¢.
- Sources of supply and conditions of employment of harvest labor in Wheat Belt. DB 1211. 5¢.
- Family living in farm homes, economic study of 402 farm families in Livingston County, N. Y. DB 1214.* 5¢.
- Farm labor in Massachusetts, 1921. DB 1220. 5¢.
- Relation of land income to land value. DB 1224. 15¢.
- Conditions affecting demand for harvest labor in Wheat Belt. DB 1230. 10¢.
- Farming logged-off uplands in western Washington. DB 1236. 10¢.
- Farm motor-truck operation in New England and Central Atlantic States. DB 1254. 5¢.
- Land reclamation policies in United States. DB 1257.* 5¢.
- Farm management in Clinton County, Ind., business analysis of 100 farms in Forest and Johnson Townships for 8 years, 1910, and 1913-1919. DB 1258. 10¢.
- Relation of land tenure to plantation organization. DB 1269. 15¢.
- Farm organization in southwestern Minnesota. DB 1271. 15¢.
- Input as related to output in farm organization and cost-of-production studies. DB 1277. 10¢.
- Truck-farm labor in New Jersey, 1922. DB 1285. 10¢.
- Field and crop labor on Georgia farms. DB 1292.* 5¢.
- Land settlement and colonization in Great Lakes States. DB 1295. 15¢.
- Corn and hog correlations. DB 1300.* 10¢.
- Some economic aspects of farm ownership. DB 1322. 5¢.
- Family living from the farm. DB 1338. 5¢.
- Appraisal of power on farms in United States. DB 1348. 15¢.
- Cost of producing hogs in Iowa and Illinois, 1921-22. DB 1381. 20¢.
- Farm-management problems on irrigated farms in hay and potato areas of Yakima Valley, Wash. DB 1388. 15¢.
- Factors affecting farmers' earnings in Southeastern Pennsylvania. DB 1400. 15¢.
- Tenancy and ownership among negro farmers in Southampton County, Va. DB 1404. 5¢.
- Economic study of irrigated farming in Twin Falls, Idaho. DB 1421. 15¢.
- Ownership of tenant farms in United States. DB 1432. 10¢.

26 *Classified List—Farm Management*

Department Bulletins—Continued.

Ownership of tenant farms in North Central States. DB 1433. 10¢.

Factors in cost of producing beef in Flint Hills section of Kansas. DB 1454. 5¢.

Trend toward a more effective use of land as shown by yield per acre of certain crops. DB 1458. 5¢.

Department Circulars:

Suggestions for State law providing for organization of farmers' mutual fire insurance companies. DC 77.* 5¢.

Testing farms in South for efficiency in management. DC 83.* 5¢.

Credit association as agency for rural short-time credit. DC 197. 5¢.

Method of testing farm-management and cost-of-production data for validity of conclusions. DC 307. 5¢.

Cost of producing field crops, 1923. DC 340.* 5¢.

Centralized management of large corporate estate operated by tenants in Wheat Belt. DC 351. 10¢.

Miscellaneous Circulars:

Relation of agricultural education to farm organizations. MC 3. 5¢.

Practical farm economics. MC 32.* 40¢.

Statistical Bulletins:

Prices of farm products received by producers. 1. North Atlantic States. Monthly prices for 1925 with comparable data for earlier years. SB 14. 20¢.

Yearbook Separates:

Organization of rural interests. 1913. Yb. Sep. 626. 5¢.

Outstanding factors in profitable farming. 1915. Yb. Sep. 661. 5¢.

How Department of Agriculture promotes organization in rural life. 1915. Yb. Sep. 675.* 5¢.

Farmers' mutual fire insurance. 1916. Yb. Sep. 697.* 5¢.

Value of records to the farmer. 1917. Yb. Sep. 735.* 5¢.

Cattle loans, value to investors. 1918. Yb. Sep. 764. 5¢.

How dairying built up a community. 1918. Yb. Sep. 765.* 5¢.

Housing the worker on the farm. 1918. Yb. Sep. 789.* 5¢.

Farm practices in growing wheat. 1919. Sep. 804.* 10¢.

Farmers' purchase power. 1919. Yb. Sep. 819.* 5¢.

Horsepower problem on the farm. 1919. Yb. Sep. 825.* 5¢.

Cost of a bushel of wheat. 1920. Yb. Sep. 846.* 5¢.

Cost data for farm products. 1921. Yb. Sep. 876.* 10¢.

Farm operations. 1922. Yb. Sep. 890. 5¢.

Utilization of lands for crops, pasture, forests. 1923. Yb. Sep. 896. 15¢.

Farm ownership and tenancy. 1923. Yb. Sep. 897. 15¢.

Farm credit, insurance, and taxation. 1924. Yb. Sep. 915. 15¢.

FATS AND OILS

Department Bulletins:

Digestibility of some animal fats. DB 310.* 5¢.

Commercial production of thymol from horsemint. DB 372.* 5¢.

Production of sweet-orange oil. DB 399.* 5¢.

Department Bulletins—Continued.

Possibility of commercial production of lemon-grass oil in United States. DB 442. 5¢.

Fats and their economical use in the home. DB 469.* 5¢.

Digestibility of some vegetable fats. DB 505.* 5¢.

Digestibility of some animal fats. DB 507.* 5¢.

Digestibility of certain miscellaneous animal fats. DB 613.* 5¢.

Production and conservation of fats and oils in United States. DB 769.* 10¢. Same, supplement. 5¢.

Digestibility of some by-product oils. DB 781.* 5¢.

Castor-oil industry. DB 867. 10¢.

Production and utilization of corn oil. DB 904. 5¢.

Preparation of edible oil from crude oil. DB 1010. 5¢.

Digestibility of cod-liver, java-almond, tea-seed, and water-melon-seed oils, deer fat, and some blended hydro-generated fats. DB 1033. 5¢.

Comparison of corn oils obtained by expeller and benzol extraction methods. DB 1054.* 5¢.

Yearbook Separates:

American vegetable food oils. 1916. Yb. Sep. 691. 5¢.

FEEDING LIVESTOCK

Farmers Bulletins:

Computation of rations for farm animals by energy values. FB 346.* 5¢.

Making and feeding of silage. FB 578. 5¢.

Stock-watering places on western grazing lands. FB 592.* 5¢.

Feeding of grain sorghums to livestock. FB 724. 5¢. •

Feeding of dairy cows. FB 743. 5¢.

Hog pastures for Southern States. FB 951.* 5¢.

Feeding horses. FB 1030. 5¢.

Prickly pear as stock feed. FB 1072.* 5¢.

Beet-top silage and other by-products of sugar beet. FB 1095. 5¢.

Feeding garbage to hogs. FB 1133. 5¢.

Meadows for the Northern States. FB 1170.* 5¢.

Feeding cottonseed products to livestock. FB 1179. 5¢.

Raising sheep on temporary pastures. FB 1181. 5¢.

Feeding and management of young dairy stock. FB 1336. 5¢.

Fattening steers in Corn Belt. FB 1382. 5¢.

Fattening beef calves. FB 1416. 5¢.

Saving livestock from starvation on southwestern ranges. FB 1428. 5¢.

Self-feeding versus hand feeding sows and litters. FB 1504. 5¢.

Department Bulletins:

Range improvement by deferred and rotation grazing. DB 34.* 5¢.

Fish meal as stock and poultry food. DB 378.* 5¢.

New Mexico range caterpillar. DB 443.* 5¢.

Disposal of irrigated crops through use of hogs. DB 488.* 5¢.

Grazing upon western yellow pine reproduction in national forests of Arizona and New Mexico. DB 580.* 10¢.

Department Bulletins—Continued.

Fish meal as a feed for swine., DB 610. 5¢.

Pasture lands on farms. DB 626.* 10¢.

Wintering and fattening beef cattle in North Carolina. DB 628. 10¢.

Five years' calf-feeding work in Alabama and Mississippi. DB 631. 10¢.

Range preservation on western grazing lands. DB 675.* 10¢.

Chopped soapweed as emergency feed for cattle on southwestern ranges. DB 745.* 5¢.

Irrigated field crops for hog pasturing. DB 752. 10¢.

Concentrates for fattening steers in South. DB 761.* 5¢.

Roughages for fattening steers in South. DB 762.* 5¢.

Effect of winter rations on pasture gains of yearling steers. DB 870. 5¢.

Cottonseed meal for horses. DB 929. 5¢.

Influence of calcium and phosphorus in feed on milk yield of dairy cows. DB 945.* 5¢.

Wintering and summer fattening of steers in North Carolina. DB 954.* 5¢.

Feeding experiments with grade beef cows raising calves. DB 1024.* 5¢.

Range and cattle management during drought. DB 1031.* 20¢.

The sunflower as silage crop. DB 1045.* 10¢.

Effect of silage on flavor and odor of milk. DB 1097. 5¢.

Dry-land pasture crops for hogs at Huntley, Mont. DB 1143.* 5¢.

Apple by-products as stock foods. DB 1166. 5¢.

Effects of different systems and intensities of grazing upon native vegetation, Northern Great Plains Field Station. DB 1170. 15¢.

Effect of feeding green alfalfa and green corn on flavor and odor of milk. DB 1190. 5¢.

Effect of feeding turnips on flavor and odor of milk. DB 1208. 5¢.

Damage to range grasses by Zuni prairie dog. DB 1227. 10¢.

Effect of winter rations on pasture gains of 2-year-old steers. DB 1251.* 10¢.

Values of various new feeds for dairy cows. DB 1272. 5¢.

Effect of feeding cabbage and potatoes on flavor and odor of milk. DB 1297. 5¢.

Steer feeding in sugar-cane belt. DB 1318. 5¢.

Effect of garlic on flavor and odor of milk. DB 1326. 5¢.

Fattening steers on velvet beans. DB 1333.* 10¢.

Effect of feeding green rye and green cowpeas on flavor and odor of milk. DB 1342. 5¢.

Range watering places in Southwest. DB 1358. 15¢.

Normal growth of range cattle. DB 1394. 5¢.

Range readiness and forage production on national forests. DB 1405. 15¢.

Effect of winter rations on gains of calves marketed as 3-year-old steers. DB 1431. 5¢.

Department Circulars:

Influence of winter rations on growth of steers on pasture.

DC 166. 5¢.

Range crane-flies in California. DC 172.* 5¢.

Composition of sugar-beet pulp and tops and of silage therefrom. DC 319. 5¢.

Use of salt in range management. DC 379.* 10¢.

Miscellaneous Circulars:

Handbook for better feeding of livestock. MC 12. 5¢.

Yearbook Separates:

Livestock drought relief work. 1919. Yb. Sep. 820.* 5¢.

Miscellaneous:

Grazing use book. (Revised 1926.)

The story of the range.* 25¢.

FIBER CROPS

(See also Marketing)

Farmers Bulletins:

Use of Paris green in controlling cotton boll weevil.

FB 211.* 5¢.

Cotton improvement under weevil conditions. FB 501. 5¢.

Cotton anthracnose. FB 555.* 3¢.

Growing Egyptian cotton in Salt River Valley, Ariz. FB 577.* 5¢.

Fiber flax. FB 669. 5¢.

Losses from selling cotton in seed. FB 775. 5¢.

Red spider on cotton. FB 831. 5¢.

How insects affect the cotton plant. FB 890. 5¢.

Cotton diseases and their control. FB 1187. 5¢.

Cotton-dusting machinery. FB 1319. 5¢.

Production of seed flax. FB 1328. 5¢.

Boll-weevil problem. FB 1329. 5¢.

Pima and upland cotton in Arizona. FB 1432. 5¢.

Cotton ginning. FB 1465. 5¢.

Department Bulletins:

Spinning tests of upland long-staple cottons. DB 121.* 5¢.

Economic conditions in sea-island cotton industry. DB 146.* 5¢.

Cotton warehouses; storage facilities in South. DB 216.* 5¢.

Arizona wild-cotton weevil. DB 233.* 5¢.

Cotton warehouse construction. DB 277.* 10¢.

Custom ginning as factor in cottonseed deterioration. DB 288.* 5¢.

Durango cotton in Imperial Valley. DB 324.* 5¢.

Manufacturing tests of cotton fumigated with hydrocyanic-acid gas. DB 366.* 5¢.

Disadvantages of selling cotton in seed. DB 375. 5¢.

Red spider on cotton. DB 416.* 20¢.

Relation between primary market prices and qualities of cotton. DB 457.* 5¢.

Department Bulletins—Continued.

- System of accounts for cotton warehouses. DB 520.* 5¢.
- Single-stalk cotton culture in Louisiana, Arkansas, and North Carolina. DB 526.* 5¢.
- Extension of cotton production in California. DB 533.* 5¢.
- Manufacturing tests of official cotton standards for grade. DB 591.* 5¢.
- Influence on linseed oil of the geographical source and variety of flax. DB 655.* 5¢.
- Length of cotton lint, crops 1916 and 1917. DB 733.* 5¢.
- Experiments with flax on breaking. DB 883.* 10¢.
- Investigations of pink bollworm of cotton in Mexico. DB 918.* 20¢.
- Biology of Mexican cotton boll weevil. DB 926.* 15¢.
- Production of binder-twine fiber in Philippine Islands. DB 930.* 5¢.
- Comparative spinning tests of Meade and sea-island cotton. DB 946.* 5¢.
- Composition of cottonseed. DB 948.* 25¢.
- System of accounting for cotton ginneries. DB 985. 10¢.
- Preliminary manufacturing tests of official cotton standards of United States for color for upland tinged and stained cotton. DB 990. 5¢.
- Water-stress behavior of Pima cotton in Arizona. DB 1018.* 10¢.
- Meade cotton, upland long-staple variety replacing sea island. DB 1030.* 15¢.
- Pedigreed fiber flax. DB 1092. 10¢.
- One-variety cotton communities. DB 1111.* 10¢.
- Investigations of heat canker of flax. DB 1120. 10¢.
- Self-fertilization and cross-fertilization in Pima cotton. DB 1134.* 10¢.
- Spinning tests of cotton compressed to different densities. DB 1135. 10¢.
- Comparative spinning tests of superior varieties of cotton, grown under weevil conditions, Southeastern States, 1921. DB 1148. 5¢.
- Boll-weevil cotton in Texas. DB 1153.* 5¢.
- Segregation and correlation of characters in upland-Egyptian cotton hybrid. DB 1164.* 25¢.
- Utilization of Pima cotton. DB 1184.* 15¢.
- Flax-stem anatomy in relation to retting. DB 1185. 5¢.
- Dusting cotton from airplanes. DB 1204.* 10¢.
- Delinting and recleaning cottonseed for planting. DB 1219. 10¢.
- Production of henequen fiber in Yucatan and Campeche. DB 1278. 5¢.
- Ginning Pima cotton in Arizona. DB 1319. 10¢.
- Behavior of cotton planted at different dates in weevil-control experiments in Texas and South Carolina. DB 1320.* 15¢.
- Check list of diseases of economic plants in United States. DB 1366. 15¢.
- Studies of the pink bollworm in Mexico. DB 1374. 15¢.
- Pink bollworm. DB 1397. 10¢.

Department Bulletins—Continued.

Ozonium root rot. DB 1417. 15¢.

Weather damage to cotton. DB 1438. 5¢.

Cotton-gin fires caused by static electricity. DB 28. 5¢.

Department Circulars:

Linters. DC 175. 5¢.

Improvements in cotton production. DC 200. 5¢.

Cottonseed mixing increased by modern gin equipment.

DC 205.* 5¢.

Dispersion of the boll weevil in 1921. DC 210.* 5¢.

Uniformity of Pima cotton. DC 247. 5¢.

Frost resistance in flax. DC 264. 5¢.

Dispersion of boll weevil in 1922. DC 266. 5¢.

Grounding cotton gins to prevent fires. DC 271. 5¢.

Dusting for cotton boll weevil. DC 274. 5¢.

Commercial classification of American cotton. DC 278.* 10¢.

Seed flax as farm crop in 1925. DC 341. 5¢.

Acala cotton in San Joaquin Valley of California.

DC 357.* 10¢.

Cotton hopper, or so-called "cotton flea." DC 361. 5¢.

Uniform-depth press-wheel cotton planter attachment.

DC 381. 5¢.

Study of off-type plants of Acala cotton. DC 390. 10¢.

Growth and development of cotton plants at Greenville, Tex. DC 401. 5¢.

Yearbook Separates:

Hemp. 1913. Yb. Sept. 628.* 15¢.

Sisal and benequen as binder-twine fibers. 1918. Yb. Sep. 790. 5¢.

Killing boll weevils with poison dust. 1920. Yb. Sep. 842.* 5¢.

The cotton situation. 1921. Yb. Sep. 877. 15¢.

FISH*Department Bulletins:*

Shrimp, handling, transportation, and uses. DB 538. 5¢.

Commercial freezing and storing of fish. DB 635. 5¢.

Digestibility of fish. DB 649.* 5¢.

Chemical changes in oysters during preparation for market. DB 740. 5¢.

Pink yeast causing spoilage in oysters. DB 819.* 5¢.

Maine sardine industry. DB 908.* 50¢.

Yearbook Separates:

Supplementing meat supply with fish. 1913. Yb. Sep. 623. 5¢.

Shipping fish 3,000 miles. 1915. Yb. Sep. 665.* 5¢.

FLOWERS*Farmers Bulletins:*

Roses for the home. FB 750. 5¢.

Fumigation of ornamental greenhouse plants with hydrocyanic-acid gas. FB 880. 5¢.

Beautifying the farmstead. FB 1087. 5¢.

Growing annual flowering plants. FB 1171. 15¢.

Sawflies injurious to rose foliage. FB 1252. 5¢.

Insect enemies of chrysanthemums. FB 1306. 5¢.

Chrysanthemums for the home. FB 1311. 5¢.

Farmers Bulletins—Continued.

- Greenhouse construction and heating. FB 1318. 5¢.
 Strawberry rootworm as enemy of greenhouse rose. FB 1344. 5¢.
 Root-knot. FB 1345. 5¢.
 Insects on ornamental greenhouse plants. FB 1362. 15¢.
 Dahlias for the home. FB 1370. 5¢.
 Herbaceous perennials. FB 1381. 15¢.
 Garden irises. FB 1406. 10¢.
 Insect enemies of the flower garden. FB 1495. 15¢.

Department Bulletins:

- Violet rove-beetle. DB 264.* 5¢.
 Rose midge. DB 778.* 5¢.
 Commercial Dutch-bulb culture. DB 797.* 10¢.
 Chrysanthemum midge. DB 833.* 10¢.
 Production of the Easter lily in northern climates. DB 962. 10¢.
 Biology of the lotus borer. DB 1076. 5¢.
 Production of tulip bulbs. DB 1082. 25¢.
 Production of narcissus bulbs. DB 1270. 15¢.
 Production of grape-hyacinth bulbs. DB 1327.* 5¢.
 Madonna lily. DB 1331. 5¢.
 Strawberry rootworm, new pest on greenhouse roses. DB 1357. 10¢.

Department Circulars:

- Calcium cyanide as fumigant for ornamental greenhouse plants. DC 380. 5¢.

Yearbook Separates:

- Flowering and fruiting of plants as controlled by length of day. 1920. Yb. Sep. 852. 5¢.

FORAGE CROPS

(See also Marketing)

Farmers Bulletins:

- Adulteration of forage-plant seeds. FB 382.* 5¢.
 Best two sweet sorghums for forage. FB 458.* 5¢.
 Thornless prickly pears. FB 483.* 5¢.
 Timothy production on irrigated land in Northwestern States. FB 502. 5¢.
 Market hay. FB 508.* 5¢.
 Forage crops for cotton region. FB 509.* 5¢.
 Vetches, with chapter on vetch seed and its adulterants. FB 515. 5¢.
 Crimson clover, growing the crop. FB 550.* 5¢.
 Crimson clover, utilization. FB 579. 5¢.
 Chalcis-fly in alfalfa seed. FB 636. 5¢.
 Alfalfa attacked by clover-root curculio. FB 649.* 5¢.
 Hard clover seed and its treatment in hulling. FB 676. 5¢.
 Growing hay in the South for market. FB 677. 5¢.
 Field pea as a forage crop. FB 690. 5¢.
 Bur clover. FB 693. 5¢.
 Wireworms destructive to cereal and forage crops. FB 725. 5¢.
 Natal grass, southern perennial hay crop. FB 726.* 5¢.
 Button clover. FB 730.* 5¢.

Farmers Bulletins—Continued.

- Corn and cotton wireworm in relation to cereal and forage crops. FB 733.* 5¢.
Clover leafhopper in Central States. FB 737.* 5¢.
Alfalfa weevil. FB 741.* 5¢.
Grasshopper control in relation to cereal and forage crops. FB 747. 5¢.
Commercial varieties of alfalfa. FB 757.* 5¢.
Foxtail millet, culture and utilization. FB 793. 5¢.
Sweet clover; growing the crop. FB 797. 5¢.
Bermuda grass. FB 814. 5¢.
Sweet clover; utilization. FB 820.* 5¢.
Sweet clover; harvesting and threshing seed crop. FB 836.* 5¢.
Harvesting hay with the sweep rake. FB 838. 5¢.
Irrigation of alfalfa. FB 865. 5¢.
Harvesting soy-bean seed. FB 886. 5¢.
Controlling clover-flower midge in Pacific Northwest. FB 942.* 5¢.
Haymaking. FB 943. 5¢.
Garden webworm in alfalfa fields. FB 944. 5¢.
Curing hay on trucks. FB 956.* 5¢.
Purple vetch. FB 967. 5¢.
Horse beans. FB 969. 5¢.
Control of clover-flower midge. FB 971. 5¢.
Hay caps. FB 977. 5¢.
Green clover worm in alfalfa fields. FB 982. 5¢.
Timothy. FB 990. 5¢.
Billbugs destructive to cereal and forage crops. FB 1003. 5¢.
Sweet clover on Corn-Belt farms. FB 1005. 5¢.
Hay stackers used in East and South to save labor. FB 1009. 5¢.
Alfalfa on Corn-Belt farms. FB 1021. 5¢.
Rhodes grass. FB 1048. 5¢.
Baling hay. FB 1049.* 5¢.
Alfalfa caterpillar. FB 1094. 5¢.
Forage for the Cotton Belt. FB 1125. 5¢.
Sudan grass. FB 1126. 5¢.
Grasshopper control in the Pacific States. FB 1140.* 5¢.
Growing crimson clover. FB 1142. 5¢.
Lespedeza as a forage crop. FB 1143. 5¢.
Cowpeas; culture and varieties. FB 1148. 5¢.
Alsike clover. FB 1151. 5¢.
Cowpeas; utilization. FB 1153. 5¢.
Growing and utilizing sorghums for forage. FB 1158. 5¢.
Proso, or hog millet. FB 1162. 5¢.
Spraying for the alfalfa weevil. FB 1185.* 5¢.
Corn earworm as enemy of vetch. FB 1206. 5¢.
Green-bug or spring aphids. FB 1217. 5¢.
Utilization of alfalfa. FB 1229. 5¢.
Important cultivated grasses. FB 1254. 5¢.
Webworms injurious to cereal and forage crops. FB 1256. 5¢.
Velvet bean. FB 1276. 5¢.

Farmers Bulletins—Continued.

- How to grow alfalfa. FB 1283. 5¢.
 Red-clover culture; notes on insect enemies. FB 1339. 5¢.
 Root knot. FB 1345. 5¢.
 Clover failure. FB 1365. 5¢.
 Crimson clover seed production. FB 1411. 5¢.
 Cultivated grasses of secondary importance. FB 1433. 10¢.
 Commercial varieties of alfalfa. FB 1467. 5¢.
 Johnson grass. FB 1476. 5¢.
 Clover leaf weevil. FB 1484. 5¢.
 Inoculation of legumes and nonlegumes with nitrogen fixing
 and other bacteria. FB 1496. 5¢.
 Anthracnose as a cause of red clover failure in southern
 part of cloverbelt. FB 1510. 5¢.

Department Bulletins:

- Alfalfa caterpillar. DB 124.* 10¢.
 Yields of native prickly pear in southern Texas. DB 208.*
 5¢.
 Pea aphid with relation to forage crops. DB 276.* 15¢.
 Breeding millet and sorgo for drought adaptation. DB
 291.* 5¢.
 Grasshopper outbreak in New Mexico, 1913. DB 293.* 5¢.
 Moisture content and shrinkage of forage. DB 353.* 10¢.
 Spike-horned leaf-miner. DB 432.* 5¢.
 Soy bean utilization. DB 439.* 5¢.
 Identification of grasses by their vegetative characters.
 DB 461. 5¢.
 Australian saltbush. DB 617.* 5¢.
 Agricultural species of bent grasses. DB 692.* 5¢.
 Leaf-spot diseases of alfalfa and red clover, etc. DB 759.*
 10¢.
 Genera of grasses of United States. DB 772.* 40¢.
 Clover and alfalfa seed chalcid-fly. DB 812.* 10¢.
 Western grass-stem sawfly. DB 841.* 10¢.
 Sweet-clover seed, pt. 1, Pollination studies of seed pro-
 duction; pt. 2, Structure and chemical nature of seed
 coat and its relation to impermeable seeds of sweet
 clover. DB 844.* 15¢.
 Hairy-vetch seed production in United States. DB 876.*
 10¢.
 Effect of alfalfa on subsequent yields of irrigated field
 crops. DB 881.* 5¢.
 Clover stem borer as an alfalfa pest. DB 889.* 5¢.
 Clover-leaf weevil. DB 922.* 5¢.
 Garden flea hopper in alfalfa. DB 964.* 10¢.
 Results of work on blister beetles in Kansas. DB 967.*
 10¢.
 Alfalfa root studies. DB 1087.* 10¢.
 Soy and related fermentations. DB 1152.* 15¢.
 Feeding habits of Japanese beetle which influence control.
 DB 1154.* 5¢.
 Hungarian vetch. DB 1174.* 5¢.
 Chemical and structural study of mesquite, carob, and
 honey locust beans. DB 1194.* 5¢.
 Forage crops in relation to agriculture of semiarid portion
 of northern Great Plains. DB 1244. 10¢.
 Common vetch and its varieties. DB 1289. 5¢.
 Emulsions of wormseed oil and of carbon disulfide for
 destroying larvæ of Japanese beetle in roots of peren-
 nial plants. DB 1332.* 5¢.

Department Bulletins—Continued.

- Biological studies of green clover worm. DB 1336.* 5¢.
 Check list of diseases of economic plants in United States.
 DB 1366. 15¢.
 Saltbushes and their allies in United States. DB 1345.
 15¢.
 Ozonium root rot. DB 1417. 15¢.
 Comparative shrinkage in weight of alfalfa cured with
 leaves attached and removed. DB 1424. 5¢.
 Clover root borer. DB 1426. 10¢.

Department Circulars:

- Development of Peruvian alfalfa industry in United States.
 DC 93.* 5¢.
 Field pea. DC 118.* 5¢.
 Eelworm disease; a menace to alfalfa. DC 297. 5¢.
 Introduction of parasites of alfalfa weevil. DC 301.*
 5¢.
 Korean lespedeza, new forage crop. DC 317.* 5¢.
 Japanese beetles. DC 363. 25¢.

Yearbook Separates:

- Some new grasses for the South. 1912. Yb. Sep. 609.*
 5¢.
 Recent grasshopper outbreaks. 1915. Yb. Sep. 674.* 5¢.
 Soy-bean industry. 1917. Yb. Sep. 740.* 5¢.
 Our forage resources. 1923. Yb. Sep. 895. 20¢.
 Hay. 1924. Yb. Sep. 916. 20¢.

FOREIGN AGRICULTURE

Department Bulletins:

- Handbook of foreign agricultural statistics. DB 987.
 10¢.
 Agricultural survey of Europe: Danube Basin. DB 1234.
 15¢.
 Agricultural cooperation in Denmark. DB 1266. 15¢.
 Poultry and egg industry in Europe. DB 1385.* 15¢.
 Agricultural survey of Europe: Germany. DB 1399. 20¢.
 Agricultural survey of South America: Argentina and
 Paraguay. DB 1409.* 20¢.

Department Circular:

- Livestock industry in South America. DC 228. 5¢.

Yearbook Separates:

- Meat production in Australia and New Zealand. 1914.
 Yb. Sep. 650.* 5¢.
 Pre-war crop estimates in Germany. 1919. Yb. Sep. 801.
 5¢.
 Livestock conditions in Europe. 1919. Yb. Sep. 821.*
 5¢.

FRUITS

(See also Marketing)

Farmers Bulletins:

- Pineapple growing. FB 140.* 5¢.
 Propagation of plants (budding and grafting). FB 157
 5¢.
 Pruning. FB 181. 5¢.
 Roselle, its culture and uses. FB 307.* 5¢.

Farmers Bulletins—Continued.

- Spraying peaches for brown rot, scab, and curculio. FB 440. 5¢.
- Pear and how to grow it. FB 482. 5¢.
- San Jose scale and its control. FB 650. 5¢.
- Apple tree tent caterpillar. FB 662. 5¢.
- Control of citrus thrips in California and Arizona. FB 674.* 5¢.
- Roundheaded apple-tree borer. FB 675. 5¢.
- Leaf blister mite of pear and apple. FB 722. 5¢.
- Oyster-shell scale and scurfy scale. FB 723. 5¢.
- Growing fruit for home use in Great Plains area. FB 727. 5¢.
- Orchard bark beetles and pinhole borers. FB 763. 5¢.
- Citrus fruit improvement. FB 794. 5¢.
- Growing peaches; sites and cultural methods. FB 917. 5¢.
- Peach varieties and their classification. FB 918. 5¢.
- Citrus fruit insect control in Florida. FB 933. 5¢.
- Apple bitter rot and its control. FB 938. 5¢.
- Growing fruit for home use. FB 1001. 5¢.
- Woolly white fly in Florida citrus groves. FB 1011.* 5¢.
- Propagation and culture of the date palm. FB 1016. 5¢.
- Fig growing in South Atlantic and Gulf States. FB 1031. 5¢.
- Fungous and insect enemies of the pear in humid sections of Pacific Northwest. FB 1056. 5¢.
- Flat-headed apple-tree borer. FB 1065. 5¢.
- Frost and prevention of damage by it. FB 1096. 5¢.
- Control of apple powdery mildew. FB 1120. 5¢.
- Aphids injurious to orchard fruits. FB 1128. 10¢.
- Diseases of apples in storage. FB 1160. 5¢.
- Tree surgery. FB 1178. 5¢.
- Pineapple culture in Florida. FB 1237. 5¢.
- Peach borer; paradichlorobenzene treatment. FB 1246. 5¢.
- Olive growing in Southwestern States. FB 1249. 5¢.
- Insects injurious to mango in Florida. FB 1257. 5¢.
- The avocado; its insect enemies. FB 1261. 5¢.
- More important apple insects. FB 1270. 15¢.
- Apple-orchard renovation. FB 1284. 5¢.
- Common mealy bug on citrus in California. FB 1309. 5¢.
- Fumigation of citrus trees for insect pests. FB 1321. 10¢.
- Codling moth in Pacific Northwest. FB 1326. 10¢.
- Pruning citrus trees in the Southwest. FB 1333. 5¢.
- Culture of citrus fruits in Gulf States. FB 1343. 5¢.
- Root knot. FB 1345. 5¢.
- Apple growing east of Mississippi River. FB 1360. 10¢.
- Bridge grafting. FB 1369.* 5¢.
- Apple scald. FB 1380. 5¢.
- Cranberry harvesting and handling. FB 1402. 5¢.
- Diseases of stone fruits on market. FB 1435. 5¢.
- Citrus-fruit growing in the Southwest. FB 1447. 10¢.
- Apple scab. FB 1478. 5¢.
- Apple blotch. FB 1479. 5¢.
- Home fruit garden on northern Great Plains. FB 1522. 10¢.

Department Bulletins:

- Anthracnose of mango in Florida. DB 52.* 10¢.
 Codling moth in Pecos Valley, N. Mex. DB 88.* 5¢.
 Lesser bud moth. DB 113.* 5¢.
 Mediterranean fruit fly in Bermuda. DB 161.* 5¢.
 Life history and habits of pear thrips in California.
 DB 173.* 15¢.
 Codling moth in central Appalachian region. DB 189.*
 10¢.
 Botanical character of leaves of date palm. DB 223.*
 10¢.
 Verbena bud moth. DB 226.* 5¢.
 Life history of codling moth in Maine. DB 252.* 10¢.
 Parandra borer as orchard enemy. DB 262.* 5¢.
 Dates of Egypt and the Sudan. DB 271.
 Peach supply and distribution in 1914. DB 298.* 5¢.
 Terrapin scale, insect enemy of peach orchards. DB.
 351.* 15¢.
 Codling moth in Pecos Valley, N. Mex. DB 429.* 15¢.
 Humidifier for lemon-curing rooms. DB 494.* 5¢.
 Apple blotch. DB 534.* 5¢.
 Peach bacterial spot in southern orchards. DB 543.* 5¢.
 Storage of apples in Pacific Northwest. DB 587.* 15¢.
 Orchard injury by hickory tiger moth. DB 598.* 5¢.
 Striped peach worm. DB 599.* 5¢.
 Bud variation in Washington navel orange. DB 623.*
 15¢.
 Bud variation in Valencia orange. DB 624.* 25¢.
 Mediterranean fruit fly. DB 640. 15¢.
 Sources of apple bitter-rot infections. DB 684.* 10¢.
 Apple powdery mildew in arid regions of Pacific North-
 west. DB 712. 10¢.
 Smyrna fig culture. DB 732. 10¢.
 Use of toxic gases as a possible means of control of
 peach-tree borer. DB 796. 5¢.
 Two leafhoppers injurious to apple nursery stock. DB
 805.* 10¢.
 Peaches, production estimates and important commercial
 districts and varieties. DB 806. 10¢.
 Bud variation in the Eureka lemon. DB 813.* 25¢.
 Bud variation in the Lisbon lemon. DB 815.* 25¢.
 Frost protection in lemon orchards. DB 821.* 10¢.
 Pears, production estimates and important commercial
 districts and varieties. DB 822. 5¢.
 Generic classification of hemipterous family Aphididae.
 DB 826.* 30¢.
 Peach-sizing machine. DB 864.* 5¢.
 Black fly of citrus and other subtropical plants. DB 885.*
 20¢.
 Spotted apple-tree borer. DB 886.* 5¢.
 Pear borer. DB 887.* 5¢.
 Fumigation of citrus plants with hydrocyanic acid. DB
 907.* 15¢.
 Tear-stain of citrus fruits. DB 924. 5¢.
 Life history of codling moth in Grand Valley of Colorado.
 DB 932.* 25¢.
 Codling moth in Grand Valley of Colorado. DB 959.*
 10¢.
 Argentine ant in California citrus orchards. DB 965. 10¢.

Department Bulletins—Continued.

- Composition of California lemons. DB 993. 5¢.
 Red spider on the avocado. DB 1035.* 10¢.
 Control of citrophilus mealybug. DB 1040.* 5¢.
 Changes in composition of California avocados during growth. DB 1073. 5¢.
 Biology of the papaya fruit fly in Florida. DB 1081.* 5¢.
 Internal browning of yellow Newtown apple. DB 1104. 10¢.
 Natural control of citrus mealybug in Florida. DB 1117.* 5¢.
 Citrus scab. DB 1118. 25¢.
 Saidy date of Egypt. DB 1125.* 15¢.
 Coloring Satsuma oranges in Alabama. DB 1159. 5¢.
 Paradichlorobenzene for peach-borer control. DB 1169.* 5¢.
 Fruits in West Virginia, Kentucky, Tennessee. DB 1189. 15¢.
 Dusting and spraying peach trees after harvest for plum curculio. DB 1205.* 5¢.
 Life history of codling moth in Yakima Valley, Wash. DB 1235.* 15¢.
 Canker-worms. DB 1238.* 10¢.
 Diseases of apples on the market. DB 1253.* 5¢.
 Inheritance of composition in fruit through vegetative propagation, bud varieties of Eureka and Lisbon lemons. DB 1255. 5¢.
 Bud moth. DB 1273.* 5¢.
 Check list of diseases of economic plants in the United States. DB 1366. 15¢.
 Coloring citrus fruit in Florida. DB 1367. 5¢.
 Effectiveness against San Jose scale of dry substitutes for liquid lime-sulphur. DB 1371. 5¢.
 Electroculture. DB 1379.* 10¢.
 Ripening, storage, and handling of apples. DB 1406.* 20¢.
 Ozonium root rot. DB 1417. 15¢.
 Picking maturity of apples in relation to storage. DB 1448. 5¢.

Department Circulars:

- Fruit growing on northern Great Plains. DC 58.* 5¢.
 New feature of bud variation in citrus. DC 206. 5¢.
 Commercial control of citrus scab. DC 215. 5¢.
 Curculio, brown-rot, and scab in peach belt of Georgia. DC 216.* 10¢.
 By-products from citrus fruits. DC 232. 5¢.
 Commercial control of citrus melanose. DC 259. 5¢.
 Preliminary report on control of San Jose scale with lubricating oil emulsion. DC 263. 5¢.
 Commercial control of citrus stem-end rot. DC 293. 5¢.
 Quarantine procedure to safeguard introduction of citrus plants; system of aseptic plant propagation. DC 299.* 5¢.
 Solar propagating frame for rooting citrus and other subtropical plants. DC 310. 5¢.
 Improved type of pressure tester for determination of fruit maturity. DC 350.* 5¢.
 Control of crown gall in apple nursery. DC 376.* 5¢.
 Pollination of the avocado. DC 387. 5¢.

Department Circulars—Continued.

Oriental peach moth. DC 395. 10¢.

Control of apple scald with shredded oiled paper. DC 396.* 5¢.

Yearbook Separates:

Birds enemies of codling moth. 1911. Yb. Sep. 564.* 5¢.

Results obtained in studying ripening bananas with respiration calorimeter. 1912. Yb. Sep. 592. 5¢.

Promising new fruits. 1913. Yb. Sep. 618.* 15¢.

Color as indication of picking maturity of fruits and vegetables. 1916. Yb. Sep. 686.* 10¢.

Danger of introducing fruit flies. 1917. Yb. Sep. 731.* 5¢.

Cooperative improvement of citrus varieties. 1919. Yb. Sep. 813.* 10¢.

FRUITS, SMALL

Farmers Bulletins:

Grape propagation, pruning, and training. FB 471. 5¢.

The native persimmon. FB 685. 5¢.

The rose chafer, destructive garden and vineyard pest. FB 721. 5¢.

Growing cherries east of Rocky Mountains. FB 776. 5¢.

Strawberry culture in Tennessee, Kentucky, West Virginia. FB 854.* 5¢.

Cranberry-insect problems. FB 860.* 5¢.

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Strawberry culture, Southeastern States. FB 1026. 5¢.

Strawberry culture, Western States. FB 1027. 5¢.

Strawberry culture, Eastern States. FB 1028. 5¢.

Strawberry varieties. FB 1043. 5¢.

Control of cherry leaf-spot. FB 1053. 5¢.

Cranberry diseases. FB 1081. 5¢.

Insect and fungous enemies of the grape. FB 1220. 10¢.

Red-necked raspberry cane-borer. FB 1286. 5¢.

Plum and prune growing in Pacific States. FB 1372. 10¢.

Currants and gooseberries. FB 1398. 5¢.

Blackberry growing. FB 1399. 5¢.

Establishing cranberry fields. FB 1400. 5¢.

Managing cranberry fields. FB 1401. 5¢.

Cranberry harvesting and handling. FB 1402. 5¢.

Dewberry growing. FB 1403. 5¢.

Prune and cherry brown-rot in Northwest. FB 1410. 5¢.

Strawberry diseases. FB 1458.* 5¢.

Diseases of raspberries and blackberries. FB 1488. 10¢.

Department Bulletins:

Grape leaf hopper in Lake Erie Valley. DB 19.* 10¢.

Cranberry rootworm. DB 263.* 5¢.

Van Fleet raspberry, new hybrid variety. DC 320. 5¢.

Raisin industry. DB 349. 10¢.

Brown rot of prunes and cherries in Pacific Northwest. DB 368.* 5¢.

False blossom of cultivated cranberry. DB 444.* 5¢.

Department Bulletins—Continued.

- Composition of California lemons. DB 993. 5¢.
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Control of cherry leaf-spot. FB 1053. 5¢.

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Plum and prune growing in Pacific States. FB 1372. 10¢.

Currants and gooseberries. FB 1398. 5¢.

Blackberry growing. FB 1399. 5¢.

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Dewberry growing. FB 1403. 5¢.

Prune and cherry brown-rot in Northwest. FB 1410. 5¢.

Strawberry diseases. FB 1458.* 5¢.

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Raisin industry. DB 349. 10¢.

Brown rot of prunes and cherries in Pacific Northwest. DB 368.* 5¢.

False blossom of cultivated cranberry. DB 444.* 5¢.

Department Bulletins—Continued.

- Grape-berry moth in Erie-Chautauqua grape belt. DB 550.* 10¢.
 Cranberry girdler. DB 554.* 10¢.
 Spoilage of cranberries after harvest. DB 714. 5¢.
 Deciduous fruit insects: Grape curculio; grape root-borer; control of root form of woolly apple aphid. DB 730.* 10¢.
 Life history and habits of mealy plum aphid. DB 774.* 5¢.
 Effect of temperature on resistance to wounding of certain small fruits and cherries. DB 830.* 5¢.
 Control of grape-berry moth in northern Ohio. DB 837.* 10¢.
 Currant grape growing. DB 856.
 Grapevine looper. DB 900.* 5¢.
 Grapevine flea-beetle. DB 901.* 10¢.
 Grape phylloxera in California. DB 903.* 30¢.
 Life history of grape-berry moth in northern Ohio. DB 911.* 10¢.
 Commercial utilization of grape pumace and stems from grape-juice industry. DB 952.* 10¢.
 Relation of water raking to keeping quality of cranberries. DB 960.* 5¢.
 Directions for blueberry culture, 1921. DB 974.* 30¢.
 Blackhead fireworm of cranberry on Pacific coast. DB 1032.* 15¢.
 Gypsy moth on cranberry bogs. DB 1093.* 10¢.
 Stem nematode *tylenchus dipsaci* on wild hosts in Northwest. DB 1229.* 5¢.
 Prune and cherry brown-rot in Pacific Northwest. DB 1252. 10¢.
 Cranberry disease investigations on Pacific coast. DB 1434. 5¢.

Department Circulars:

- Eastern blue-stem of black raspberry. DC 227. 5¢.
 Spraying strawberries for control of fruit rots. DC 309.* 5¢.
 Diseases of strawberries on the market. DC 402. 5¢.

GARDEN AND TRUCK CROPS

(See also Marketing)

Farmers Bulletins:

- Cultivation of mushrooms. FB 204.* 5¢.
 Okra, its culture and uses. FB 232. 5¢.
 Cucumbers. FB 254. 5¢.
 Beans. FB 289. 5¢.
 Onion culture. FB 354. 5¢.
 Cabbage. FB 433. 5¢.
 Home production of onion seed and sets. FB 434. 5¢.
 Frames as factor in truck growing. FB 460. 5¢.
 Potato-tuber moth. FB 557.* 5¢.
 Squash vine borer. FB 668. 5¢.
 Grasshoppers on sugar beets and truck crops. FB 691.* 5¢.
 The rose chafer, destructive garden and vineyard pest. FB 721. 5¢.

Farmers Bulletins—Continued.

- Common cabbage worm. FB 766.* 5¢.
- Mushroom pests. FB 789. 5¢.
- Some common edible and poisonous mushrooms. FB 796. 5¢.
- Asparagus. FB 829. 5¢.
- Asparagus beetles. FB 837.* 5¢.
- Potato storage and storage houses. FB 847. 5¢.
- Home storage of vegetables. FB 879. 5¢.
- Bean growing in eastern Washington and Oregon and northern Idaho. FB 907.* 5¢.
- Control of melon aphids. FB 914.* 5¢.
- Home gardening in the South. FB 934.* 5¢.
- City and suburban vegetable garden. FB 936.* 5¢.
- Farm garden in the North. FB 937. 5¢.
- Common white grubs. FB 940. 5¢.
- Potato culture under irrigation. FB 953. 5¢.
- Spotted garden slug. FB 959. 5¢.
- Sweet-potato storage. FB 970.* 5¢.
- Sweet-potato growing. FB 999. 5¢.
- Control of onion thrips. FB 1007. 5¢.
- Sweet-potato weevil and its control. FB 1020.* 5¢.
- City home garden. FB 1044. 5¢.
- Sweet-potato diseases. FB 1059. 5¢.
- Onion diseases. FB 1060. 5¢.
- Harlequin cabbage bug. FB 1061. 5¢.
- Late or main crop potatoes. FB 1064. 5¢.
- Bean ladybird. FB 1074.* 5¢.
- How to grow an acre of potatoes. FB 1190. 5¢.
- Beet leaf beetle and its control. FB 1193. 5¢.
- Potato production in the South. FB 1205. 5¢.
- Potato leafhopper. FB 1225.* 5¢.
- Tomatoes for canning and manufacturing. FB 1233. 5¢.
- Permanent fruit and vegetable gardens. FB 1242. 5¢.
- Seed peas for the canner. FB 1253. 5¢.
- Production of peas for canning. FB 1255. 5¢.
- Flue-heated tobacco barns for sweet-potato storage. FB 1267. 5¢.
- Celery growing. FB 1269. 5¢.
- Weevils in beans and peas. FB 1275. 5¢.
- Diseases of watermelon. FB 1277.* 5¢.
- Nicotine dust for control of truck-crop insects. FB 1282. 5¢.
- Production of cucumbers in greenhouses. FB 1320. 5¢.
- Striped cucumber beetle. FB 1322.* 5¢.
- Seed potatoes and how to produce them. FB 1332. 5¢.
- Tomatoes as a truck crop. FB 1338. 5¢.
- Root-knot. FB 1345. 5¢.
- Increasing the potato crop by spraying. FB 1349. 5¢.
- Control of potato-tuber diseases. FB 1367. 10¢.
- Diseases and insects of garden vegetables. FB 1371. 10¢.
- Vegetable seed for home and market garden. FB 1390. 5¢.
- Watermelons. FB 1394. 5¢.
- The dasheen, a southern root crop. FB 1396. 5¢.

42 *Classified List—Garden and Truck Crops*

Farmers Bulletins—Continued.

- Mexican bean beetle in the East. FB 1407. 5¢.
- Lettuce growing in greenhouses. FB 1418. 5¢.
- Greenhouse tomatoes. FB 1431. 5¢.
- Why potatoes run out. FB 1436. 5¢.
- Storage of sweet potatoes. FB 1442. 5¢.
- Common cabbage worm. FB 1461. 5¢.
- Potato leafhopper. FB 1462. 5¢.
- Muskmelons. FB 1468. 10¢.
- The melon aphid. FB 1499. 5¢.

Department Bulletins:

- Thrips as pollinators of beet flowers. DB 104.* 5¢.
- Mushrooms and other common fungi. DB 175.* 30¢.
- Group classification of varietal descriptions of some American potatoes. DB 176. 20¢.
- Insects affecting vegetable crops in Porto Rico. DB 192.* 5¢.
- Bonavist, lablab, or hyacinth bean. DB 318.* 5¢.
- Melon fly in Hawaii. DB 491.* 25¢.
- Horse-radish flea beetle. DB 535.* 5¢.
- Potato leak. DB 577. 5¢.
- Celery storage experiments. DB 579.* 5¢.
- Microscopical studies on tomato products. DB 581. 5¢.
- Melon fly. DB 643.* 10¢.
- Southern green plant bug. DB 689.* 10¢.
- Insects injurious to the globe artichoke in Louisiana. DB 703.* 10¢.
- Anthraxnose of cucurbits. Db. 727.* 15¢.
- The broad-bean weevil. DB 807.* 5¢.
- Bacterial wilt of cucurbits. DB 828.* 15¢.
- The bean ladybird. DB 843.* 10¢.
- Mosaic disease of cucurbits. DB 879.* 15¢.
- Green June beetle. DB 891.* 20¢.
- Beet-leaf beetle. DB 892.* 15¢.
- Freezing point of potatoes determined by thermoelectric method. DB 895.* 5¢.
- Western cabbage flea beetle. DB 902.* 5¢.
- Red-banded leaf roller. DB 914.* 5¢.
- Freezing injury to potatoes when undercooled. DB 916.* 5¢.
- Development of tubers in the potato. DB 958.* 5¢.
- European horse-radish webworm. DB 966.* 5¢.
- Results of work on blister beetles in Kansas. DB 967.* 10¢.
- Group classification and varietal description of American varieties of sweet potatoes. DB 1021.* 30¢.
- Seed treatment and rainfall in relation to control of cabbage blackleg. DB 1029.* 10¢.
- Sweet-potato varieties; special reference to canning qualities. DB 1041.* 10¢.
- Sweet-potato storage studies. DB 1063. 5¢.
- Frost injury to tomatoes. DB 1099.* 5¢.
- Influence of copper sprays on yield and composition of Irish-potato tubers. DB 1146. 5¢.
- Investigation of potato wart. DB 1156. 10¢.
- Cultivation of true yams in Gulf region. DB 1167.* 10¢.
- Sterilities of wild and cultivated potatoes with reference to breeding from seed. DB 1195. 10¢.

Department Bulletins—Continued.

- Chinese jujube. DB 1215. 10¢.
Mexican-bean beetle in Southeast. DB 1243. 20¢.
Taros and Yautias; new food plants for the South. DB 1247.* 15¢.
Size of potato sets. DB 1248. 10¢.
Relation between composition of California cantaloupes and their commercial maturity. DB 1250.* 5¢.
Tomato leaf spot. DB 1288. 10¢.
Check list of diseases of economic plants in U. S. DB 1366. 15¢.
Electroculture. DB 1379.* 10¢.
Control of cucumber mosaic by eradication of wild host plants. DB 1461. 10¢.
Method of growing bacteriologically sterile potato plants. DB 1465. 15¢.

Department Circulars:

- Potato wart. DC 32.* 5¢.
Horticultural exhibitions and garden competitions. DC 62. 10¢.
Control of watermelon anthracnose by spraying. DC 90.* 5¢.
Forcing and blanching dasheen shoots. DC 125.* 5¢.
Nicotine sulphate in dust carrier against truck-crop insects. DC 154.* 5¢.
Eradication of sweet-potato weevil in Florida. DC 201.* 5¢.
Fusarium tuber rot of potatoes. DC 214. 5¢.
Anthracnose of muskmelons. DC 217. 5¢.
Phoma rot of tomatoes. DC 219. 5¢.
Late-blight tuber-rot of potato. DC 220. 5¢.
Nicotine dust for striped cucumber beetle. DC 224.* 5¢.
Bacterial spot of cucumbers. DC 234. 5¢.
Potato brown rot. DC 281. 5¢.
Australian tomato weevil introduced in South. DC 282. 5¢.
Chayote; culture and uses. DC 286.* 5¢.
Cabbage-seed treatment. DC 311. 5¢.
Chilling of tomatoes. DC 315. 5¢.
Cucumber mosaic in greenhouse. DC 321. 5¢.

Yearbook Separates:

- Color as indication of picking maturity of fruits and vegetables. 1916. Yb. Sep. 686.* 10¢.
The dasheen. 1916. Yb. Sep. 689.* 5¢.
Development and localization of truck crops. 1916. Yb. Sep. 702.* 5¢.
Seed supply of the Nation. 1917. Yb. Sep. 757.* 5¢.
Effects of war upon seed industry of United States. 1918. Yb. Sep. 775. 5¢.
How weevils get into beans. 1918. Yb. Sep. 786. 5¢.
What farmers should expect from seedsman. 1919. Yb. Sep. 815.* 5¢.
Flowering and fruiting of plants as controlled by length of day. 1920. Yb. Sep. 852. 5¢.

GRAINS

(See also Marketing)

Farmers Bulletins:

- Corn cultivation. FB 414. 5¢.
 Seed corn. FB 415.* 5¢.
 Oats, distribution and uses. FB 420.* 5¢.
 Barley culture in Southern States. FB 427.* 5¢.
 Winter oats for the South. FB 436.* 5¢.
 Winter emmer. FB 466.* 5¢.
 How to grow an acre of corn. FB 537. 5¢.
 How to manage corn crop in Kentucky and West Virginia.
 FB 546.* 5¢.
 Pop corn for home. FB 553. 5¢.
 Pop corn for market. FB 554.* 5¢.
 Culture of winter wheat in Eastern States. FB 596. 5¢.
 Growing hard spring wheat. FB 678. 5¢.
 Varieties of hard spring wheat. FB 680.* 5¢.
 Wireworms destructive to cereal and forage crops. FB
 725. 5¢.
 Corn culture in Southeastern States. FB 729.* 5¢.
 True army worm and its control. FB 731. 5¢.
 Marquis wheat. FB 732. 5¢.
 Corn and cotton wireworm in relation to cereal and forage
 crops. FB 733.* 5¢.
 Cereal crops in panhandle of Texas. FB 738.* 5¢.
 Cutworms in corn and other cereal crops. FB 739. 5¢.
 Grasshopper control in relation to cereal and forage crops.
 FB 747. 5¢.
 Grains for Montana dry lands. FB 749.* 5¢.
 Fall army worm, or grass worm. FB 752. 5¢.
 Culture of rye in Eastern States. FB 756. 5¢.
 False chinch bug. FB 762. 5¢.
 Dwarf broomcorns. FB 768. 5¢.
 Corn growing under droughty conditions. FB 773. 5¢.
 Fall-sown grains in Maryland and Virginia. FB 786. 5¢.
 Grains for dry lands of central Oregon. FB 800. 5¢.
 Shallu, or Egyptian wheat. FB 827. 5¢.
 How to detect outbreaks of insects and save grain crops.
 FB 835. 5¢.
 Irrigation of grain. FB 863. 5¢.
 Bollworms or corn-ear worm. FB 872.* 5¢.
 Rough-headed cornstalk beetle in Southern States. FB
 875. 5¢.
 Grains for western North and South Dakota. FB 878.
 5¢.
 Grains for Utah dry lands. FB 883. 5¢.
 Wheat growing in Southeastern States. FB 885. 5¢.
 Corn-root aphid. FB 891. 5¢.
 Spring oat production. FB 892. 5¢.
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 How to reduce weevil waste in southern corn. FB 915.
 5¢.
 Cereal smuts and disinfection of seed grain. FB 939.*
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 Rag-doll seed tester. FB 948. 5¢.

Farmers Bulletins—Continued.

- Southern corn rootworm. FB 950. 5¢.
- Standard broomcorn. FB 958. 5¢.
- Grain sorghums in San Antonio district, Texas. FB 965. 5¢.
- Cultivation and utilization of barley. FB 968.* 5¢
- How to use sorghum grain FB 972. 5¢.
- Use of machinery in cutting corn. FB 992.* 5¢.
- Billbugs destructive to cereal and forage crops. FB 1003. 5¢.
- Wheat jointworm. FB 1006. 5¢.
- Larger cornstalk borer. FB 1025. 5¢.
- Conserving corn from weevils in Gulf Coast States. FB 1029. 5¢.
- Eelworm disease of wheat and its control. FB 1041. 5¢.
- Dry farming for better wheat yields, the Columbia and Snake River Basins. FB 1047.* 5¢.
- Destroy the common barberry. FB 1058. 5¢.
- Buckwheat. FB 1062.* 5¢.
- Hessian fly. FB 1083. 5¢.
- How insects affect the rice crop. FB 1086. 5¢.
- Prairie rice culture. FB 1092. 5¢.
- Growing irrigated grain in southern Idaho. FB 1103. 5¢.
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- Spur feterita. DC 124.* 5¢.
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- Occurrence of wheat downy mildew. DC 186.* 5¢.
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- Kanred wheat. DC 194. 5¢.
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- Wild rice. DC 229. 5¢.
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- Barberry eradication prevents black rust in western Europe. DC 269. 5¢.
- Flag smut of wheat. DC 273.* 5¢.
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- Electrochemical treatment of seed wheat. DC 305. 5¢.
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- Chemical eradication of common barberry. DC 332. 5¢.
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Cereal diseases and national food supply. 1917. Yb. Sep. 755.* 5¢.

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Black stem rust and barberry. 1918. Yb. Sep. 796.* 5¢.

The corn crop. 1921. Yb. Sep. 872.* 10¢.

Oats, barley, rye, rice, grain, sorghums, seed flax, and buckwheat. 1922. Yb. Sep. 891. 15¢.

GUINEA PIGS

Farmers Bulletins:

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Department Bulletins:

Effects of inbreeding and crossbreeding on guinea pigs.

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HOGS

(See also Feeding Livestock and Marketing)

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Department Bulletins:

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Yearbook Separates:

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How to select foods: 2. Cereals. FB 817. 5¢.

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Farm household accounts. FB 964. 5¢.

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House cleaning made easier. FB 1180. 5¢.

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Making American cheese on the farm. FB 1191. 5¢.

Rice as food (with receipes). FB 1195. 5¢.

Floors and floor covering. FB 1219. 5¢.

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Farmers Bulletins—Continued.

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Inspection of fruit and vegetable canneries. DB 1084.* 10¢.
Proportioning ingredients for ice cream and other frozen products by balance methods. DB 1123. 5¢.
Vitamine B in edible tissues of ox, sheep, and hog. DB 1138.* 10¢.
Evaporation of fruits. DB 1141. 10¢.
Absorption and retention of hydrocyanic acid by fumigated food products (pt. 1). DB 1149. 5¢. (Pt. 2, DB 1307. 5¢.)
Effect of composition on palatability of ice cream. DB 1161. 5¢.
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Scalding, precooking, and chilling, as preliminary canning operations. DB 1265.* 10¢.
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Commercial dehydration of fruits and vegetables. DB 1335. 10¢.
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The paper dress form. DC 207.* 5¢.
Experiments with boric-acid canning powder. DC 237. 5¢.
Homemade apple and citrus pectin extracts. DC 254. 5¢.
Commercial cuts of meat. DC 300. 5¢.
Proximate composition of beef. DC 389. 5¢.

Miscellaneous Circulars:

- Time-tables for home canning of fruits and vegetables. MC 24. 5¢.
A guide to good meals for the junior homemaker. MC 49. 5¢.

Miscellaneous Circulars—Continued.

- Certification of coal-tar food colors. MC 52. 5¢.
 The inspection stamp as guide to wholesome meat.
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 Score card for judging clothing selection and construction.
 MC 90. 5¢.

Yearbook Separates:

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 569.* 5¢.
 Health laws. 1913. Yb. Sep. 619.* 5¢.
 What Department of Agriculture is doing for the house-
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 Supplementing meat supply with fish. 1913. Yb. Sep.
 623. 5¢.
 Apple sirup and concentrated cider. 1914. Yb. Sep. 639.*
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 Selection of household equipment. 1914. Yb. Sep. 646.*
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 American vegetable food oils. 1916. Yb. Sep. 691. 5¢.
 Meat-inspection service. 1916. Yb. Sep. 714. 15¢.
 Composition and food value of bottled soft drinks. 1918.
 Yb. Sep. 774. 5¢.
 Food for farm families. 1920. Yb. Sep. 858. 5¢.

HOPS*Farmers Bulletins:*

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Department Bulletins:

- Soft resins in sulphured and unsulphured hops in cold and
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HORSES

(See also Feeding Livestock)

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 FB 1097. 5¢.
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 Horseflies, biologies and relation to western agriculture.
 DB 1218.* 10¢.

Department Circulars:

- Breeding Morgan horses at U. S. Morgan horse farm.
 DC 199. 10¢.

Yearbook Separates.

Stallion legislation and horse-breeding industry. 1916.

Yb. Sep. 692.* 5¢.

Breeding horses for United States Army. 1917. Yb. Sep. 754.* 5¢.

Miscellaneous:

Diseases of the Horse. (Bound volume of 629 pages.)* \$1.00.

ICE

Harvesting and storing ice on farm. FB 1078. 5¢

IMPORTS AND EXPORTS**Department Bulletins:**

Foreign trade in farm and forest products. DB 296.* 10¢.

Milled rice imported into United States. DB 323.* 5¢.

Carrying qualities of American export corn. DB 764. 20¢.

Transportation of citrus fruit from Porto Rico. DB 1290. 5¢.

Department Circulars:

Australia and New Zealand as markets for American fruit.

DC 145. 5¢.

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Miscellaneous Circulars:

Importation and exportation of tea. MC 9. 5¢.

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Imports and exports of agricultural products. 1914. Yb. Sep. 657.* 5¢.

Hawaii helps farmers to market produce. 1915. Yb. Sep. 663.* 5¢.

Imports and exports of agricultural products. 1915. Yb. Sep. 685.

Imports and exports of agricultural products. 1916. Yb. Sep. 722. 5¢.

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Federal quarantine against foreign livestock diseases. 1918. Yb. Sep. 783.* 5¢.

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Selling purebred stock to South America. 1919. Yb. Sep. 818.* 5¢.

Imports and exports of agricultural products. 1919. Yb. Sep. 829.* 5¢.

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Imports and exports of agricultural products. 1920. Yb. Sep. 864.* 10¢.

Imports and exports of agricultural products. 1921. Yb. Sep. 867. 5¢.

Imports and exports of agricultural products. 1922. Yb. Sep. 880. 5¢.

Imports and exports of agricultural products. 1923. Yb. Sep. 905. 5¢.

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- Exports and imports of agricultural products. 1924. Yb.
 Sep. 911.* 10¢.
 Foreign trade of the U. S. in agricultural products. 1925.
 Yb. Sep. 924. 10¢.

INSECTS, HOUSEHOLD

Farmers Bulletins:

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 House centipede. FB 627. 5¢.
 Cockroaches. FB 658. 5¢.
 Fleas as pests to man and animals. FB 683.* 5¢.
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 House ants. FB 740. 5¢.
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 Fleas and their control. FB 897. 5¢.
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 Carpet beetles. FB 1346. 5¢.
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 5¢.
 Destruction of fly larvæ in horse manure. DB 245.* 5¢.
 Substances against bedbugs, cockroaches, clothes moths, and
 carpet beetles. DB 707.* 5¢.
 Studies on the biology and control of chiggers. DB 986.
 5¢.
 Red cedar chests as protectors against moth damage.
 DB 1051.* 10¢.
 Impounding water in a bayou to control breeding of
 malaria mosquitos. DB 1098.* 15¢.
 Bats in relation to production of guano and destruction
 of insects. DB 1395. 5¢.

Department Circulars:

- Puss caterpillar and effects of its sting on man. DC 288.*
 5¢.
 Rat mite attacking man. DC 294.* 5¢.
 Airplane dusting in control of malaria mosquitoes. DC
 367. 5¢.

INSECTICIDES AND FUNGICIDES

Farmers Bulletins:

- Carbon disulphid as an insecticide. FB 799. 5¢.
 Information for fruit growers about insecticides, spraying
 apparatus and important insect pests. FB 908. 15¢.
 Commercial Bordeaux mixtures. FB 994. 5¢.
 Lime-sulphur concentrate. FB 1285. 5¢.

Department Bulletins:

- Quassin as contact insecticide. DB 165.* 5¢.
 Homemade lime-sulphur concentrate. DB 197.* 5¢.
 Preparing commercial grade of calcium arsenate. DB 750. 5¢.
 Effect of storage, heat, and moisture on pyrethrum. DB 771.* 5¢.
 Field testing of copper-spray coatings. DB 785. 5¢.
 Adulteration of insect powder with powdered daisy flowers. DB 795. 5¢.
 Insect powder (or pyrethrum powder). DB 824. 20¢.
 Pickering sprays. DB 866. 10¢.
 Toxic action of certain gases on insects, seeds, and fungi. DB 893. 5¢.
 Chemical changes in calcium arsenate during storage. DB 1115. 10¢.
 Chemical, physical, and insecticidal properties of arsenicals. DB 1147. 10¢.
 Studies on contact insecticides. DB 1160. 5¢.
 Bordeaux-oil emulsion. DB 1178. 5¢.
 Plants tested for or reported to possess insecticidal properties. DB 1201.* 10¢.
 Mixing emulsified mineral lubricating oils with deep-well waters and lime-sulphur solutions. DB 1217. 5¢.
 Oviposition response of insects. DB 1324. 5¢.
 Fish oil; efficient adhesive in arsenate-of-lead sprays. DB 1439. 10¢.

Department Circulars:

- A list of fungi prepared for exchange. DC 195. 10¢.

LAWNS

Department Circulars:

- Making and maintaining a lawn. DC 49.* 5¢.
 Lawn pennywort. DC 165.* 5¢.

LEATHER AND TANNING

Farmers Bulletins:

- Country hides and skins. FB 1055. 10¢.
 The care of leather. FB 1183.* 5¢.
 Home tanning of leather and small fur skins. FB 1334.* 5¢.

Department Bulletins:

- American sumac; tanning material and dyestuff. DB 706. 5¢.
 Wearing qualities of shoe leathers. DB 1168. 10¢.

LIVESTOCK, GENERAL

(See also Feeding Livestock and Marketing)

Farmers Bulletins:

- Loco-weed diseases. FB 380.* 5¢.
 Texas or tick fever. FB 569. 5¢.
 Foot-and-mouth disease. FB 666. 5¢.
 Prevention of losses of livestock from plant poisoning. FB 720.* 5¢.
 Anthrax or charbon. FB 784. 5¢.
 Contagious abortion of cattle. FB 790. 5¢.
 Livestock classifications at county fairs. FB 822.* 5¢.

Farmers Bulletins—Continued.

- Tall larkspur on cattle ranges in national forests. FB 826.* 5¢.
 Screw-worms and other maggots affecting animals. FB 857. 5¢.
 Cattle lice and how to eradicate them. FB 909. 5¢.
 Dehorning and castrating cattle. FB 949. 5¢.
 Disinfection of stables. FB 954. 5¢.
 Spinose ear tick. FB 980. 5¢.
 Larkspur, or "poison weed." FB 988. 5¢.
 Cattle scab and methods of control. FB 1017. 5¢.
 Hemorrhagic septicemia, stockyards fever, swine plague, fowl cholera, etc. FB 1018. 5¢.
 Loco-weed disease. FB 1054. 5¢.
 Cattle fever ticks. FB 1057. 5¢.
 Determining the age of cattle by the teeth. FB 1066. 5¢.
 Tuberculosis in livestock. FB 1069. 5¢.
 Essentials of animal breeding. FB 1167. 5¢.
 Stock-poisoning death camas. FB 1273. 5¢.
 Blackleg: Its nature, cause, and prevention. FB 1355. 5¢.

Department Bulletins:

- Immunization tests with glanders vaccine. DB 70.* 5¢.
 Changes in degree of oxidation of arsenic in dipping baths. DB 259.* 5¢.
 Vaccination against anthrax. DB 340.* 5¢.
 Larkspur poisoning of livestock. DB 365.* 25¢.
 Lupines as poisonous plants. DB 405.* 10¢.
 Chemical composition of lime-sulphur animal dips. DB 451.* 5¢.
 Vesicular stomatitis of horses and cattle. DB 662. 5¢.
 Hemorrhagic septicemia. DB 674.* 5¢.
 Stagger grass as poisonous plant. DB 710. 5¢.
 Oak-leaf poisoning of domestic animals. DB 767.* 10¢.
 Whorled milkweed as poisonous plant. DB 800. 15¢.
 Principles of livestock breeding. DB 905. 15¢.
 Poisonous properties of whorled milkweeds. DB 942. 10¢.
 Western sneezewood as poisonous plant. DB 947.* 10¢.
 Mexican whorled milkweed as poisonous plant. DB 969. 5¢.
 Death camas species, *Zygadneus paniculatus* and *Z. elegans*, as poisonous plants. DB 1012. 10¢.
 Effects of inbreeding and crossbreeding on guinea pigs.—
 I. Decline in vigor. II. Differentiation among inbred families. DB 1090.* 15¢.
 Effects of inbreeding and crossbreeding on guinea pigs.—
 III. Crosses between highly inbred families. DB 1121.* 15¢.
 Woolly-pod milkweed as poisonous plant. DB. 1212.* 5¢.
 Meadow death camas as poisonous plant. DB 1240.* 5¢.
 Stock-poisoning plants of the range. DB 1245. 35¢.
 Cocklebur as poisonous plants. DB 1274.* 10¢.
 Cattle grubs or ox warbies. DB 1369. 25¢.
 Transmitting ability of 23 Holstein-Friesian sires. DB 1372.* 5¢.
 Nuttall's death camas as poisonous plants. DB 1376.* 5¢.
 Rayless goldenrod as poisonous plant. DB 1391.* 5¢.
 Tumors of domestic animals. DB 1449.* 10¢.

Department Circulars:

- Astragalus tetrapeterus, poisonous plant of Utah and Nevada. DC 81.* 5¢.
- A sheep-poisoning plant of Southern States. DC 82.* 5¢.
- Whorled milkweed, plant poisonous to livestock. DC 101. 5¢.
- Alkali disease of livestock in Pecos Valley. DC 180. 5¢.
- State laws and court decisions on cattle-tick eradication. DC 184. 5¢.
- Utility value of purebred livestock. DC 235. 10¢.
- Tuberculin testing of livestock. DC 249. 10¢.
- Woolly-pod milkweed as stock-poisoning plant. DC 272.* 5¢.
- Greasewood as a poisonous plant. DC 279.* 5¢.
- Livestock poisoning by cocklebur. DC 283. 5¢.
- Mycotic stomatitis of cattle. DC 322. 5¢.
- Foot-and-mouth disease, special reference to outbreak of 1914. DC 325. 5¢.
- Foot-and-mouth disease; special reference to outbreaks in California and Texas. DC 400. 15¢.

Miscellaneous Circulars:

- Some tested methods for livestock improvement. MC 33. 5¢.

Yearbook Separates:

- Relations of Federal Government to control of contagious diseases of animals. 1903. Yb. Sep. 303.* 5¢.
- Respiration calorimeter; results of experiments. 1910. Yb. Sep. 539.* 5¢.
- Livestock and reconstruction. 1918. Yb. Sep. 773.* 5¢.
- Progress in eradicating contagious animal diseases. 1919. Yb. Sep. 802.* 5¢.
- Toll of tuberculosis in livestock. 1919. Yb. Sep. 810.* 5¢.
- Harnessing heredity to improve Nation's livestock. 1919. Yb. Sep. 816.* 5¢.
- Runts, and the remedy. 1920. Yb. Sep. 841.* 5¢.

Miscellaneous:

- Diseases of cattle. (Bound volume of 563 pages.)* \$1.00.

MACHINERY

Farmers Bulletins:

- Harvesting hay with the sweep rake. FB 838. 5¢.
- Care and repair of plows and harrows. FB 946.* 5¢.
- Care and repair of mowers, reapers, binders. FB 947.* 5¢.
- Efficient operation of threshing machines. FB 991.* 5¢.
- Use of machinery in cutting corn. FB 992.* 5¢.
- Gas tractor in eastern farming. FB 1004.* 5¢.
- Hay stackers used in East and South to save labor. FB 1009. 5¢.
- Practical hints on running a gas engine. FB 1013. 5¢.
- Machinery for cutting firewood. FB 1023.* 5¢.
- Farm tractor in the Dakotas. FB 1035. 5¢.
- Care and repair of grain separators. FB 1036. 5¢.
- Tile-trenching machinery. FB 1131. 5¢.
- Motor trucks on eastern farms. FB 1201.* 5¢.
- Tractors on southern farms. FB 1278. 5¢.

Farmers Bulletins—Continued.

Cotton-dusting machinery. FB 1319. 5¢.

Effective haying equipment and practices; northern Great Plains and intermountain regions. FB 1525. 10¢.

Department Bulletins:

Excavating machinery in land drainage. DB 300.* 20¢.

Peach-sizing machine. DB 864.* 5¢.

Farm motor-truck operation in New England and central Atlantic States. DB 1254. 5¢.

Department Circulars:

Installation of dust-collecting fans on threshing machines for prevention of explosions and fires and for grain cleaning. DC 98. 5¢.

Uniform-depth press-wheel cotton planter attachment. DC 381. 5¢.

Miscellaneous:

Sharpening cross-cut saws.* 25¢.

MARKETING AND COOPERATION

Farmers Bulletins:

Handling and shipping citrus fruits in Gulf States. FB 696. 5¢.

Suggestions for parcel-post marketing. FB 703.* 5¢.

Commercial grading, packing, and shipping of cantaloupes, FB 707. 5¢.

Commercial handling, grading, marketing of potatoes. FB 753. 5¢.

Application of dockage in marketing of wheat. FB 919.* 5¢.

Parcel-post business methods. FB 922.* 5¢.

Marketing butter and cheese by parcel post. FB 930.* 5¢.

Preparation of strawberries for market. FB 979.* 5¢.

Cooperative bull associations. FB 993. 5¢.

Operating a cooperative motor-truck route. FB 1032.* 5¢.

Handling and loading southern new potatoes. FB 1050. 5¢.

Preparation of barreled apples for market. FB 1080. 5¢.

Protection of potatoes from cold in transit; lining and loading cars. FB 1091. 5¢.

Cooperative marketing of woodland products. FB 1100. 5¢.

Dockage under the Federal wheat grades. FB 1118.* 5¢.

Cooperative marketing. FB 1144. 5¢.

Handling and transportation of cantaloupes. FB 1145. 5¢.

Handling spinach for long-distance shipment. FB 1189. 5¢.

Northwestern apple-packing houses. FB 1204. 5¢.

Measuring and marketing farm timber. FB 1210. 5¢.

Seed-marketing hints for the farmer. FB 1232. 5¢.

Farmers telephone companies. FB 1245.* 5¢.

Business methods of marketing hay. FB 1265. 5¢.

Preparation of peaches for market. FB 1266. 5¢.

Bulk handling of grain. FB 1290. 5¢.

Preparation of fresh tomatoes for market. FB 1291. 5¢.

Farmers Bulletins—Continued.

- Marketing the cowpea-seed crop. FB 1308. 5¢.
- Marketing the early potato crop. FB 1316. 5¢.
- Marketing main-crop potatoes. FB 1317. 5¢.
- Marketing poultry. FB 1377. 5¢.
- Marketing eggs. FB 1378. 5¢.
- Preparation of cabbage for market. FB 1423. 4¢.
- Standard baskets for fruits and vegetables. FB 1424. 5¢.
- Cow-testing associations and records. FB 1446. 5¢.
- Packing apples in boxes. FB 1457. 5¢.
- Selling black-walnut timber. FB 1459. 5¢.
- Cooperative livestock shipping associations. FB 1502. 5¢.

Department Bulletins:

- Refrigeration of dressed poultry in transit. DB 17. 10¢.
- Shrinkage in weight of beef cattle in transit. DB 25.* 10¢.
- Refrigeration in handling of milk. DB 98.* 10¢.
- Cotton warehouses; storage facilities in South. DB 216.* 5¢.
- Outlets and methods of sale for shippers of fruits and vegetables. DB 266.* 5¢.
- Wholesale distribution of fruits and vegetables. DB 267.* 5¢.
- Factors governing successful shipment of red raspberries from Puyallup Valley. DB 274. 10¢.
- Rail shipments and distribution of fresh tomatoes, 1914. DB 290.* 5¢.
- Marketing Arizona-Egyptian cotton of Salt River Valley. DB 311.* 5¢.
- Patronage dividends in cooperative grain companies. DB 371.* 5¢.
- Commercial grading of opened eggs. DB 391.* 15¢.
- Typical cooperative stores in United States. DB 394.* 10¢.
- Accounts for livestock shipping associations. DB 403.* 5¢.
- Marketing and distribution of western muskmelons, 1915. DB 401.* 15¢.
- Marketing Durango cotton in Imperial Valley. DB 458.* 5¢.
- Study of cotton market conditions in North Carolina. DB 476.* 5¢.
- Rhizopus rot of strawberries in transit. DB 531. 5¢.
- Shrimp; handling, transportation, and uses. DB 538. 5¢.
- Cooperative organization by-laws. DB 541.* 5¢.
- Marketing grain at country points. DB 558.* 5¢.
- 28-hour law regulating interstate transportation of livestock. DB 589. 10¢.
- Geography of wheat prices. DB 594.* 20¢.
- Handling of Florida lettuce and celery. DB 601.* 10¢.
- Commercial freezing and storing of fish. DB 635. 5¢.
- Market milk business of Detroit, Mich., 1915. DB 639.* 10¢.
- Prevention of breakage of eggs in transit when shipped in car lots. DB 664.* 20¢.

Department Bulletins—Continued.

- Marketing berries and cherries by parcel post. DB 688.* 5¢.
- Marketing practices of Wisconsin and Minnesota creameries. DB 690.* 5¢.
- Geographical phases of farm prices; corn. DB 696.* 10¢.
- Nematode galls as factor in marketing and milling of wheat. DB 734.* 5¢.
- Chemical changes in oysters during preparation for market. DB 740. 5¢.
- Cooling milk and storing and shipping it at low temperatures. DB 744. 10¢.
- Geographical phases of farm prices; oats. DB 755.* 10¢.
- Commercial preservation of eggs by cold storage. DB 775.* 10¢.
- Cold storage reports, season 1917-18. DB 776.* 10¢.
- Requirements and cost of producing market milk in northwestern Indiana. DB 858. 5¢.
- Marketing eastern grapes. DB 861. 10¢.
- Shrinkage of market hay. DB 873. 5¢.
- Unit requirements for producing milk in western Washington. DB 919.* 5¢.
- Unit requirements for producing market milk in Vermont. DB 923. 5¢.
- Distribution of northwestern boxed apples. DB 935.* 15¢.
- Cooperative grain marketing; comparative study of methods in United States and Canada. DB 937. 5¢.
- Unit requirements for producing market milk in southeastern Louisiana. DB 955. 5¢.
- Unit requirements for producing market milk in eastern Nebraska. DB 972. 5¢.
- Marketing hay at country points. DB 977. 5¢.
- Weighing of market hay. DB 978. 10¢.
- Marketing hay through terminal markets. DB 979. 10¢.
- Inspection and grading of hay. DB 980. 5¢.
- Open types of public markets. DB 1002. 5¢.
- Accounting records for sampling apples by weight. DB 1006.* 5¢.
- Marketing broom corn. DB 1019.* 10¢.
- Self-service in retailing of food products. DB 1044.* 10¢.
- Marketing cottonseed for planting purposes. DB 1056. 10¢.
- Handling, shipping, and cold storage of Bartlett pears in Pacific Coast States. DB 1072.* 5¢.
- Farm and terminal market prices: Wheat, corn, oats. Crop movement year 1920-21. DB 1083.* 10¢.
- Shrinkages of soft pork under commercial conditions. DB 1086. 10¢.
- Producers' cooperative milk-distributing plants. DB 1095. 10¢.
- Unit requirements for producing market milk in Delaware. DB 1101. 5¢.
- Legal phases of cooperative associations. DB 1106. 15¢.
- Sales methods and policies of a growers' national marketing agency. DB 1109. 10¢.
- Marketing of mill feed. DB 1124. 5¢.
- Freezing temperature of some fruits, vegetables, cut flowers. DB 1133. 5¢.
- Accounting records and business methods for livestock shipping associations. DB 1150. 10¢.

Department Bulletins—Continued.

Marketing southern-grown sweet potatoes. DB 1206.* 10¢.

Organization and development of a cooperative citrus-fruit marketing agency. DB 1237. 10¢.

Marketing cabbage. DB 1242. 15¢.

Market classes and grades of dressed beef. DB 1246. 30¢.

Operating methods and expense of cooperative citrus-fruit marketing agencies. DB 1261. 5¢.

Agricultural cooperation in Denmark. DB 1266. 15¢.

Marketing and distribution of American-grown Bermuda onions. DB 1283. 10¢.

Farm organization in central Kansas. DB 1296. 15¢.

Farmers' cooperative business organizations. DB 1302. 15¢.

Retail marketing of meats, etc. DB 1317. 15¢.

Marketing onions. DB 1325. 15¢.

What makes price of oats. DB 1351. 10¢.

Efficiency of short-type refrigerator car. DB 1353. 5¢.

Market classes and grades of livestock. DB 1360. 15¢.

American fruit and produce auctions. DB 1362. 5¢.

Cold storage of Florida grapefruit. DB 1368. 5¢.

Cooperative marketing of cotton. DB 1392. 10¢.

Comparative efficiency of wire-basket bunkers in refrigerator cars. DB 1398. 5¢.

Marketing peanuts. DB 1401. 25¢.

Some results of soft-pork investigations. DB 1407. 15¢.

Expense factors in city distribution of perishables. DB 1411. 10¢.

Marketing lettuce. DB 1412. 15¢.

Management problems of cooperative associations marketing fruits and vegetables. DB 1414. 10¢.

Marketing western boxed apples. DB 1415. 20¢.

Marketing barreled apples. DB 1416. 20¢.

Factors affecting the price of hogs. DB 1440. 15¢.

Methods of practices of retailing meat. DB 1441. 10¢.

Margins, expenses and profits in retailing meats. DB 1442. 10¢.

Cotton prices and markets. DB 1444. 15¢.

Services in cotton marketing. DB 1445. 10¢.

Department Circulars:

How to load cars of eggs. DC 55. 5¢.

Improvements in methods of selling cotton by farmers. DC 56. 5¢.

United States grades for sweet potatoes. DC 99.* 5¢.

United States grades for milled rice. DC 133.* 5¢.

United States grades for potatoes. DC 238. 5¢.

United States grades for grain sorghums. DC 245. 5¢.

United States grades for rye. DC 246.* 5¢.

United States grades for rough rice. DC 290. 5¢.

United States grades for milled rice. DC 291. 5¢.

United States grades for shelled white Spanish peanuts. DC 304.* 5¢.

How to collect, label, and pack living plant material for long-distance shipment. DC 323.* 5¢.

United States grades for timothy hay, clover hay, clover mixed hay, and grass mixed hay, effective Feb. 1, 1924.

DC 326. 5¢.

Department Circulars—Continued.

- Methods of packing eggs and buffing and bracing eggs in carload shipments. DC 391. 5¢.
 Farmers' cooperative business study. DC 397. 10¢.
 Business set-up of cooperative marketing association. DC 403. 5¢.
 Membership relations of cooperative associations. DC 407. 5¢.

Miscellaneous Circulars:

- Grain futures act, 1922. MC 10.* 10¢.
 Agricultural cooperation, a list with special reference to purchasing, marketing, and credit. MC 11. 10¢.
 State sanitary requirements governing admission of livestock. MC 14. 10¢.
 Bibliography on marketing of agricultural products. MC 35. 10¢.
 The farmer and the United States warehouse act. MC 51. 5¢.
 Efficient methods of retailing meat. MC 54. 10¢.
 Warehouseman and the United States warehouse act. MC 67. 5¢.
 United States standard tobacco sizes. MC 83. 10¢.

Statistical Bulletins:

- Cold storage holdings, year ending January, 1923, with comparable data for earlier years. SB 1.* 5¢.
 Cold-storage holdings to October, 1924. (Revision of SB 1.) SB 4. 5¢.
 Grain futures, daily data, volume of trading on Chicago Board of Trade, Jan. 1, 1921, to May 31, 1924. SB 6. 5¢.
 Shipments and unloads of certain fruits and vegetables, 1918-1923. SB 7. 15¢.
 Carload shipments of fruits and melons from stations in the United States for 1920, 1921, 1922, 1923. SB. 8. 10¢.
 Carload shipments of vegetables from stations in the United States for 1920, 1921, 1922, 1923. SB 9. 15¢.
 Cold storage holdings, year ended December, 1925. SB 13. 10¢.

Yearbook Separates:

- Cooperation in marketing fruit. 1910. Yb. Sep. 546.* 5¢.
 Effect of present method of handling eggs on industry and product. 1910. Yb. Sep. 552.* 5¢.
 Handling and marketing cotton. 1912. Yb. Sep. 605.* 5¢.
 Retail public markets. 1914. Yb. Sep. 636.* 5¢.
 Shipping fish 3,000 miles. 1915. Yb. Sep. 665.* 5¢.
 Federated cooperative cheese manufacturing and marketing association. 1916. Yb. Sep. 699.* 5¢.
 Possibilities of market-train service. 1916. Yb. Sep. 701.* 5¢.
 Progress in handling the wool clip. 1916. Yb. Sep. 709.* 5¢.
 Rest rooms for women in marketing centers. 1917. Yb. Sep. 726.* 5¢.
 Service of cold storage in conservation of foodstuffs 1917. Yb. Sep. 745. 5¢.

Yearbook Separates—Continued.

- Cotton warehousing, benefits of an adequate system. 1918. Yb. Sep. 763. 5¢.
- Government market reports on livestock and meats. 1918. Yb. Sep. 788.* 5¢.
- How to use market stations. 1919. Yb. Sep. 797. 5¢.
- Marketing and purchasing demonstrations in South. 1919. Yb. Sep. 808.* 5¢.
- Federal supervision of livestock markets. 1919. Yb. Sep. 809.* 5¢.
- Why produce inspection pays. 1919. Yb. Sep. 811. 5¢.
- The march of standardization. 1920. Yb. Sep. 850.* 5¢.
- Wheat production and marketing. 1921. Yb. Sep. 873. 10¢.
- Hog production and marketing. 1922. Yb. Sep. 882. 15¢.

Miscellaneous:

- Handbook of official grain standards for wheat, shelled corn, oats and rye. 1924. U. S. G. S. A. Form 90.
- Handbook of United States grades for grain sorghums. 1924. U. S. G. S. A. Form 142.
- Handbook of official grain standards for oats, feed oats, mixed feed oats, and grain sorghums. 1925. U. S. G. S. A. Form 161.
- Handbook of official grain standards for barley. 1926. U. S. G. S. A. Form 165.
- Handbook of United States grades for milled rice. 1927. U. S. G. S. A.—G. 1, Form 173.
- Handbook of United States grades for rough rice. 1927. U. S. G. S. A.—G. 1, Form 174.
- Handbook of official hay standards. 1925. H. F. S. Form 540.
- The banker and the United States warehouse act.
- Warehousing farm products under the United States warehouse act.

MEDICINAL PLANTS

Farmers Bulletins:

- Weeds used in medicine. FB 188.* 5¢.
- Boldenseal under cultivation. FB 613. 5¢.
- Drug plants under cultivation. FB 663. 10¢.
- Ginseng diseases and their control. FB 736. 5¢.
- Ginseng culture. FB 1184.* 5¢.
- Drying crude drugs. FB 1231. 5¢.

Department Bulletins:

- American medicinal flowers, fruits, and seeds. DB 26.* 5¢.
- Commercial production of thymol from horsemint. DB 372.* 5¢.
- Production of sweet-orange oil. DB 399.* 5¢.
- Castor oil industry. DB 867. 10¢.

Yearbook Separates:

- Production of drug plant crops. 1917. Yb. Sep. 734.* 5¢.

NUTS

(See also Marketing)

Farmers Bulletins:

- Pecan culture, propagation, and varieties. FB 700. 5¢.
- Peanut oil. FB 751.* 5¢.
- Preventing wood rot in pecan trees. FB 995. 5¢.
- Peanut growing for profit. FB 1127. 5¢.
- Diseases of southern pecan. FB 1129. 5¢.
- Root-knot. FB 1345. 5¢.
- Important pecan insects. FB 1364. 10¢.
- Black walnut for timber and nuts. FB 1392. 5¢.
- Nut tree propagation. FB 1501. 10¢.

Department Bulletins:

- Pecan rosette in relation to soil deficiencies. DB 756. 5¢.
- Walnut husk maggot. DB 992.* 5¢.
- Pecan rosette; history, cytology, and relations to other chlorotic diseases. DB 1038.* 25¢.
- Kernel spot of pecan and its cause. DB 1102. 5¢.
- Almond varieties in United States. DB 1282.* 30¢.
- Pecan nut case-bearer. DB 1303.* 5¢.
- Utilization of almonds for various food products. DB 1305. 5¢.
- Relation of soil conditions and orchard management to rosette of pecan trees. DB 1378. 10¢.

Department Circulars:

- Manufacture and use of peanut butter. DC 128.* 5¢.
- Commercial control of pecan scab. DC 386. 5¢.

PAPER MAKING

Department Bulletins:

- Suitability of longleaf pine for paper pulp. DB 72.* 5¢.
- Zacaton as paper-making material. DB 309.* 5¢.
- American flax straw in paper and fiber-board industry. DB 322.* 5¢.
- Hemp hurds as paper-making material. DB 404.* 5¢.
- Regional development of pulp-wood resources of Tongass National Forest, Alaska. DB 950. 10¢.
- How United States can meet its present and future pulp-wood requirements. DB 1241. 15¢.
- Decay in pulp and pulp wood. DB 1298.* 25¢.

PEPPERMINT

Farmers Bulletins:

- Cultivation of peppermint and spearmint. FB 694. 5¢.

Department Bulletins:

- Effect of cultural and climatic conditions on peppermint oil. DB 454.* 5¢.

PERSONNEL

Miscellaneous Circulars:

- List of workers in State agricultural colleges and experiment stations, 1922-23. MC 4.* 15¢.
- List of workers in State agricultural colleges and experiment stations, 1923-24. MC 17.* 10¢.
- Directory of field activities of Bureau of Plant Industry. MC 30.* 10¢.

Miscellaneous Circulars—Continued

- List of workers in State agricultural colleges and experiment stations, 1924-25. MC 34.* 15¢.
- List of technical workers in U. S. Department of Agriculture, 1924-25. MC 45.* 15¢.
- List of workers in State agricultural colleges and experiment stations, 1925-26. MC 58.* 15¢.
- List of technical workers in U. S. Department of Agriculture, 1925-26. MC 73. 15¢.
- Directory of field activities of Bureau of Entomology. MC 80. 5¢.
- Information pamphlet regarding employment on the national forests.

POULTRY AND EGGS

(See also Marketing)

Farmers Bulletins:

- Poultry management. FB 287. 5¢.
- Hints to poultry raisers. FB 528.* 5¢.
- Simple trap nest for poultry. FB 682. 5¢.
- Squab raising. FB 684. 5¢.
- Duck raising. FB 697. 5¢.
- Goose raising. FB 767. 5¢.
- Mites and lice on poultry. FB 801. 5¢.
- Capons and caponizing. FB 849. 5¢.
- Mediterranean and Continental breeds of chickens. FB 898.* 5¢.
- Illustrated poultry primer. FB 1040.* 5¢.
- Feeding hens for egg production. FB 1067. 5¢.
- Fowl tick, and how premises may be freed from it. FB 1070. 5¢.
- Care of mature fowls. FB 1105.* 5¢.
- Incubation of hens' eggs. FB 1106.* 5¢.
- Care of baby chicks. FB 1108.* 5¢.
- Culling for eggs and market. FB 1112.* 5¢.
- Tuberculosis of fowls. FB 1200. 5¢.
- Ornamental breeds of chickens. FB 1221.* 5¢.
- Bantam breeds of chickens. FB 1251.* 5¢.
- Back-yard poultry keeping. FB 1331.* 5¢.
- Diseases of poultry. FB 1337. 5¢.
- Incubation of hen's eggs. FB 1363. 5¢.
- Brooding of chickens. FB 1376. 5¢.
- Guinea fowl. FB 1391. 5¢.
- Turkey raising. FB 1409. 5¢.
- Poultry house construction. FB 1413. 5¢.
- Poultry accounts. FB 1427. 5¢.
- American, Asiatic, English, and Mediterranean breeds of chickens. FB 1506. 10¢.
- Continental European, oriental, and miscellaneous breeds of chickens. FB 1507. 10¢.
- Poultry keeping in back yards. FB 1508. 10¢.

Department Bulletins:

- Chicken mite; life history and habits. DB 553.* 5¢
- Feed cost of egg production. DB 561.* 10¢.
- How to candle eggs. DB 565.* 40¢.
- Wheatless ration for the rapid increase of flesh on young chickens. DB 657.* 5¢.

68 *Classified List—Poultry and Eggs*

Department Bulletins—Continued

Installation and equipment of egg-breaking plant. DB 663. 5¢.

Efficiency of commercial egg candling. DB 702.* 5¢.

Turkey important factor in spread of gapeworms. DB 939.* 5¢.

Miscellaneous substances against chicken mite. DB 1228.* 5¢.

Department Circulars:

How to break eggs for freezing. DC 74. 5¢.

Miscellaneous Circulars:

How to pick chickens. MC 42. 5¢.

Yearbook Separates:

Common sense in poultry keeping. 1919. Yb. Sep. 800.* 5¢.

Poultry industry. 1924. Yb. Sep. 917. 20¢.

RABBITS

Farmers Bulletins:

Cottontail rabbits in relation to trees and farm crops.

FB 702. 5¢.

Rabbit raising. FB 1090.* 5¢.

Rabbit skins for fur. FB 1519. 5¢.

REPORTS

Yearbook Separates:

Secretary's report to President. 1921. Yb. Sep. 875.* 10¢.

Secretary's report to President. 1922. Yb. Sep. 883.* 10¢.

Secretary's report to President. 1923. Yb. Sep. 892.* 15¢.

Secretary's report to President. 1924. Yb. Sep. 913.* 20¢.

Secretary's report to President. 1925. Yb. Sep. 919. 15¢.

ROAD BUILDING

Farmers Bulletins:

Macadam roads. FB 338.* 5¢.

Benefits of improved roads. FB 505.* 5¢.

Department Bulletins:

Experiments in dust prevention and road preservation, 1913. DB 105.* 5¢.

Highway bonds, compilation of data, and analysis of economic features affecting construction and maintenance of highways financed by bond issues and theory of highway bond calculations. DB 136.* 20¢.

Vitrified brick pavements for country roads. DB 246.* 10¢.

Portland cement concrete pavements for country roads. DB 249.* 15¢.

Dust prevention and road preservation, 1914. DB 257.* 10¢.

Examination of bituminous road materials. DB 314.* 10¢.

Determination of properties of road-building rock. DB 347.* 10¢.

Department Bulletins—Continued.

- Physical tests of road-building rock. DB 370.* Supplement: DB 1132. 15¢.
 Public road mileage and revenues in Middle Atlantic States, 1914. DB 386.* 5¢.
 Public road mileage and revenues, New England States, 1914. DB 388.* 10¢.
 Public road mileage and revenues in U. S., 1914. DB 390.* 5¢.
 Dust prevention and road preservation, 1915. DB 407.* 10¢.
 Earth, sand-clay, and gravel roads. DB 463.* 15¢.
 Expansion and contraction of concrete and concrete roads. DB. 532.* 10¢.
 Standard forms for specifications, tests, reports, and methods of sampling for road materials. DB 555.* 10¢.
 Experimental convict road camp, Fulton County, Ga. DB 583.* 25¢.
 Highway cost keeping. DB 660.* 10¢.
 Specifications for bituminous road materials. DB 691.* 10¢.
 Drainage methods and foundations for county roads. DB 724.* 20¢.
 Portland cement concrete roads. DB 1077*. 15¢.
 Physical tests of road-building rocks, 1916-1921. DB 1132.* 10¢.
 Tentative standard methods of sampling and testing highway materials. DB 1216.* 15¢.
 Standard specifications for steel highway bridges. DB 1259. 10¢.
 Rural highway mileage, income, and expenditures, 1921 and 1922. DB 1279. 15¢.

Department Circulars:

- Forest trails and highways of Mount Hood region, Oregon. DC 105.* 10¢.
 Standard specifications for corrugated metal pipe culverts. DC 331. 5¢.

Miscellaneous Circulars:

- Federal legislation providing for Federal aid in highway construction, construction of national forest roads and trails, and distribution of surplus war materials. MC 60.* 5¢.
 Standards governing plans, specifications, contract forms, and estimates for Federal aid projects. MC 62. 5¢.

Yearbook Separates:

- Highways and highway transportation. 1924. Yb. Sep. 914. 25¢.
 Roads. 1920. Yb. Sep. 849.* 5¢.

Miscellaneous:

- Trail construction on the national forests.* 25¢.

RODENTS

Farmers Bulletins:

- How to get rid of rats. FB 1302. 5¢.
 Mouse control in field and orchard. FB 1397. 5¢.

Department Circulars:

- Toxicity of barium carbonate to rats. DB 915.* 5¢.
 Relative toxicity of strychnine to the rat. DB 1023.* 5¢.
 Life history of kangaroo rat. DB 1091. 15¢.

Yearbook Separates:

- Destroying rodent pests on the farm. 1916. Yb. Sep. 708.* 5¢.
 The house rat. 1917. Yb. Sep. 725. 5¢.
 Death to the rodents. 1920. Yb. Sep. 855. 5¢.

RUBBER*Department Bulletins:*

- South American leaf disease of Para rubber. DB 1286. 10¢.
 Pathological survey of para rubber tree in Amazon Valley. DB 1380. 50¢.

SHEEP AND GOATS

(See also Feeding Livestock and Marketing)

Farmers Bulletins:

- Breeds of sheep for farm. FB 576. 5¢.
 Sheep scab. FB 713. 5¢.
 Sheep tick and its eradication by dipping. FB 798. 5¢.
 Equipment for farm sheep raising. FB 810. 5¢.
 Farm sheep raising for beginners. FB 840. 5¢.
 Milk goats. FB 920. 5¢.
 Place of sheep on New England farms. FB 929.* 5¢.
 Sheep on irrigated farms in Northwest. FB 1051. 5¢.
 Castrating and docking lambs. FB 1134. 5¢.
 Diseases of sheep. FB 1155. 5¢.
 Farm slaughtering and use of lamb and mutton. FB 1172. 5¢.
 Growing sheep on temporary pastures. FB 1181. 5¢.
 Judging sheep. FB 1199. 5¢.
 The angora goat. FB 1203. 5¢.
 Sheep-killing dogs. FB 1268. 5¢.
 Parasites and parasitic diseases of sheep. FB 1330. 10¢.

Department Bulletins:

- Use of sheep in eradication of Rocky Mountain spotted-fever tick. DB 45.* 5¢.
 Woolgrower and wool trade. DB 206. 15¢.
 Flushing and other means of increasing lamb yields. DB 996. 5¢.
 Determining grease and dirt in wool. DB 1100.* 5¢.

Department Circulars:

- Sweet-clover-seed screenings not injurious to sheep. DC 87.* 5¢.

Yearbook Separates:

- Wool, production, foreign trade, etc. 1917. Yb. Sep. 751.* 5¢.
 The sheep industry. 1923. Yb. Sep. 894. 15¢.

SOCIOLOGY*Farmers Bulletins:*

- Community fair. FB 870.* 5¢.
 Plans for rural community buildings. FB 1173. 10¢.
 Organization of rural community buildings. FB 1192. 5¢.
 Uses of rural community buildings. FB 1274. 5¢.
 Rural planning, the social aspects. FB 1325. 5¢.

Farmers Bulletins—Continued.

- Rural planning; social aspects of recreation places.
FB 1388. 5¢.
- Rural planning; the village. FB 1441. 10¢.
- Rural hospitals. FB 1485. 10¢.

Department Bulletins:

- Influence of city on farming. DB 678.* 5¢.
- Rural community buildings in United States. DB 825.*
10¢.
- National influence of a single farm community. DB 984.
20¢.
- Relation between ability to pay and standard of living
among farmers. DB 1382. 5¢.
- Farmers' standard of living. DB 1466. 10¢.

Yearbook Separates:

- Health laws. 1913. Yb. Sep. 619.* 5¢.
- Movement from city and town to farms. 1914. Yb. Sep.
641.* 5¢.
- American farm woman as she sees herself. 1914. Yb.
Sep. 644. 5¢.

SOILS, IRRIGATION, ETC.

Farmers Bulletins:

- How to build small irrigation ditches. FB 158.* 5¢.
- Soil fertility, address before Rich Neck Farmers' Club.
FB 257.* 5¢.
- Control of blowing soils. FB 421.* 5¢.
- Choice of crops for alkali land. FB 446. 5¢.
- Timothy production on irrigated land in Northwestern
States. FB 502. 5¢.
- Sugar-beet growing under irrigation. FB 567. 5¢.
- Grains for Montana dry lands. FB 749.* 5¢.
- Grains for dry lands of central Oregon. FB 800. 5¢.
- Drainage of irrigated farms. FB 805. 5¢.
- Construction and use of farm weirs. FB 813. 5¢.
- Organization, financing, and administration of drainage
districts. FB 815. 5¢.
- Farm reservoirs. FB 828. 5¢.
- Irrigation of grain. FB 863. 5¢.
- Practical information for beginners in irrigation. FB 864.
5¢.
- Irrigation of alfalfa. FB 865. 5¢.
- Grains for Utah dry lands. FB 883. 5¢.
- Surface irrigation for eastern farms. FB 899. 5¢.
- Principle of liming of soils. FB 921. 5¢.
- Potato culture under irrigation. FB 953. 5¢.
- Dry farming for better wheat yields, the Columbia and
Snake River Basins. FB 1047.* 5¢.
- Sheep on irrigated farms in Northwest. FB 1051. 5¢.
- Growing irrigated grain in southern Idaho. FB 1103.
5¢.
- Tile-trenching machinery. FB 1131. 5¢.
- Dry farming in western South Dakota. FB 1163. 5¢.
- Gullies, how to control and reclaim them. FB 1234. 5¢.
- The border method of irrigation. FB 1243. 5¢.
- Green manuring. FB 1250. 5¢.
- Corrugation method of irrigation. FB 1348. 5¢.

Farmers Bulletins—Continued.

Terracing farm lands. FB 1386. 5¢.

Pumping from wells for irrigation. FB 1404. 5¢.

Soil productivity as affected by crop rotation. FB 1473. 5¢.

Department Bulletins:

Irrigation experiments at Davis, Calif., 1909-1912. DB 10.* 5¢.

Topographic features of desert basins of United States with reference to possible occurrence of potash. DB 54.* 25¢.

Potash salts and other salines in Great Basin. DB 61.* 15¢.

Flumes and fluming. DB 87.* 10¢.

Harmful effects of aldehydes in soils. DB 108.* 10¢.

Report on Black and Boggy swamps drainage district, Hampton and Jasper Counties, S. C. DB 114.* 15¢.

Soils of Massachusetts and Connecticut. DB 140.* 25¢.

Clyde series of soils. DB 141.* 15¢.

Miami series of soils. DB 142.* 15¢.

Soils of the Sassafras series. DB 159.* 15¢.

Reclaiming overflowed lands along Big Black River, Miss. DB 181.* 30¢.

Flow of water in irrigation channels. DB 194. 25¢.

Excavating machinery in land drainage. DB 300.* 20¢.

Phosphate rock. DB 312.* 5¢.

Flow of water in wood-stave pipe. DB 376. 25¢.

Water penetration in gumbo soils of Belle Fourche project. DB 447.* 5¢.

Irrigation in Florida. DB 462.* 15¢.

Spray irrigation. DB 495.* 10¢.

Drainage of irrigated shale land. DB 502.* 15¢.

Prevention of erosion by terracing. DB 512. 15¢.

Effect of fall irrigation on crop yields at Belle Fourche, S. Dak. DB 546.* 5¢.

Variation in chemical composition of soils. DB 551.* 5¢.

Potash as a by-product in cement industry. DB 572.* 5¢.

Some of rarer elements in soils and plants. DB 600.* 5¢.

Soils of southern New Jersey. DB 677. 40¢.

Survey of the fertilizer industry. DB 798.* 10¢.

Quality and value of important types of peat material. DB 802.* 10¢.

Flow of water in dredged drainage ditches; results of experiments to determine the roughness coefficient, n , in Kutter's formula. DB 832.* 30¢.

Capillary movement of soil moisture. DB 835.* 15¢.

Flow of water in concrete pipe. DB 852. 25¢.

Flow of water in drain tile. DB 854. 25¢.

Use of concrete pipe in irrigation. DB 906.* 20¢.

Effect of Borax in fertilizer on growth and yield of potatoes. DB 998.* 5¢.

Use of water by spring wheat on Great Plains. DB 1004.* 10¢.

Soils of eastern Virginia, uses for truck-crop production. DB 1005. 35¢.

Drainage and prevention of overflow in the valley of the Red River of the North. DB 1017.* 50¢.

Irrigation in northern Colorado. DB 1026.* 25¢.

Tests of drainage pumping plants in Southern States. DB 1067.* 10¢.

Department Bulletins—Continued.

Tables for microscopic identification of inorganic salts.

DB 1108. 5¢.

Farmer's short-box measuring flume. DB 1110. 5¢.

Absorption of colloidal and noncolloidal soil constituents.

DB 1122. 5¢.

Effect of borax on growth and yield of crops. DB 1126.* 15¢.

Storage of water in soil and its utilization by spring wheat. DB 1139. 5¢.

Irrigation district operation and finance. DB 1177. 10¢.

Manufacture of phosphoric acid by volatilization process. DB 1179. 15¢.

Field experiments with atmospheric-nitrogen fertilizers. DB 1180.* 10¢.

Potash from kelp, early development and growth of giant kelp *Macrocystis pyrifera*. DB 1191.* 5¢.

Estimation of colloidal material in soils by absorption. DB 1193. 5¢.

Drainage district assessments. DB 1207. 10¢.

Capillary distribution of moisture in soil columns of small cross section. DB 1221. 5¢.

Potash as a by-product in blast-furnace industry. DB 1226. 5¢.

Computation of fertilizer mixtures from concentrated materials. DB 1280.* 5¢.

Experiments with fallow in north-central Montana. DB 1310. 5¢.

Chemical composition of soil colloids. DB 1311. 10¢.

Bibliography relating to soil alkalies. DB 1314. 10¢.

Dry farming in southeastern Wyoming. DB 1315. 5¢.

Irrigation requirements of arable lands of Great Basin. DB 1340. 10¢.

Value of crop rotation in relation to soil productivity. DB 1377.* 15¢.

Bats in relation to production of guano and destruction of insects. DB 1395. 5¢.

Structures used in draining agricultural land. DB 1408.* 10¢.

Cocoa by-products; utilization as fertilizer. DB 1413. 10¢.

Factors and problems in selection of peat lands. DB 1419. 15¢.

Properties of the colloidal soil material. DB 1452. 10¢.

Department Circulars:

Preparation of peat composts. DC 252.* 5¢.

Composition of filter press (lime) cake. DC 257.* 5¢.

Winter field peas; value as winter cover and green manure. DC 374.* 5¢.

Yearbook Separates:

Water economy of dry-land crops. 1911. Yb. Sep. 574. 5¢.

Economy of farm drainage. 1914. Yb. Sep. 640.* 5¢.

Pumping for irrigation on the farm. 1916. Yb. Sep. 703.* 5¢.

Developing our national resources of potash. 1916. Yb. Sep. 717.* 5¢.

Arable land in the United States. 1918. Yb. Sep. 771.* 5¢.

Yearbook Separates—Continued.

- Atmospheric nitrogen for fertilizers. 1919. Yb. Sep. 803.* 5¢.
 Home production of lime by farmer. 1919. Yb. Sep. 814.* 5¢.
 Community tile drainage construction. 1919. Yb. Sep. 822.* 5¢.
 With the irrigation farmer. 1920. Yb. Sep. 839.* 5¢.

STATISTICS AND CROP ESTIMATES

(See also Imports and exports)

Farmers Bulletins:

- Agricultural outlook. No. 11, 1913. FB 563.* 5¢.
 Agricultural outlook. Dec. 27, 1913. FB 570.* 5¢.
 Agricultural outlook. July 21, 1914. FB 611.* 5¢.
 Agricultural outlook. Aug. 22, 1914. FB 615.* 5¢.
 Agricultural outlook. Oct. 16, 1914. FB 629.* 5¢.
 Agricultural outlook. Dec. 31, 1914. FB 645.* 5¢.
 Agricultural outlook. Feb. 6, 1915. FB 651.* 5¢.
 Agricultural outlook. Apr. 23, 1915. FB 672.* 5¢.

Department Bulletins:

- Wheat, yields per acre and prices, by States, 1866–1915. DB 514.* 5¢.
 Corn, yields per acre and prices, by States, 1866–1915. DB 515.* 5¢.
 Cold-storage reports, season 1917–18. DB 776.* 10¢.
 Handbook of foreign agricultural statistics. DB 987. 10¢.

Department Circulars:

- Statistical data compiled by Bureau of Crop Estimates, 1863–1920; Publications of Bureau of Crop Estimates; Subjects included in reports and records of Bureau of Crop Estimates. DC 150. 10¢.
 Food animals and meat consumption in United States. DC 241. 5¢.
 Revised estimates of crop acreages, New York, 1862–1919. DC 373. 5¢.

Miscellaneous Circulars:

- Crop and livestock estimates, 1910–1922. MC 6.* 5¢.
 Crop report regulations, effective Jan. 1, 1924. MC 20.* 5¢.
 Agricultural outlook for 1924. MC 23.* 5¢.
 Crop report regulations, effective Jan. 1, 1925. MC 37.* 5¢.
 Agricultural outlook for 1925. MC 38. 5¢.
 Crop report regulations. MC 64.* 5¢.
 Agricultural outlook for 1926. MC 65. 5¢.
 Agricultural outlook for 1927. MC 101. 10¢.

Statistical Bulletins:

- Cold-storage holdings, year ending January, 1923, with comparable data for earlier years. SB 1.* 5¢.
 Seed statistics, year ending May 31, 1923, with comparable data for earlier years. SB 2. 15¢.
 Sheep, lamb, mutton, and wool statistics, year ended March 31, 1923, with comparable data for earlier years. SB 3. 15¢.
 Cold-storage holdings to October, 1924. (Revision of SB 1.) SB 4. 5¢.

Statistical Bulletins—Continued.

Horses, mules, and motor vehicles, year ended March 31, 1924, with comparable data for earlier years. SB 5. 15¢.

Grain futures, daily data, volume of trading on Chicago Board of Trade, January 1, 1921, to May 31, 1924. SB 6. 5¢.

Shipments and unloads of certain fruits and vegetables, 1918–1923. SB 7. 15¢.

Carload shipments of fruits and melons from stations in United States for 1920, 1921, 1922, 1923. SB 8. 10¢.

Carload shipments of vegetables from stations in United States for 1920, 1921, 1922, 1923. SB 9. 15¢.

Statistics of potatoes and sweet potatoes, year ended July 31, 1924, with comparable data for earlier years. SB 10. 10¢.

Hay and feed statistics, year ended December 31, 1924, with comparable data for earlier years. SB 11. 15¢.

Wheat and rye statistics, year ended December 31, 1924, with comparable data for earlier years. SB 12. 15¢.

Cold-storage holdings, year ended December, 1925. SB 13. 10¢.

Prices of farm products received by producers. 1. North Atlantic States. Monthly prices for 1925 with comparable data for earlier years. SB 14. 20¢.

Statistics of hogs, pork, and pork products; year ended December 31, 1925, with comparable data for earlier years. SB 18. 30¢.

Yearbook Separates:

Livestock and miscellaneous statistics. 1913. Yb. Sep. 631.* 5¢.

Livestock and census data. 1914. Yb. Sep. 656. 5¢.

Statistics of grain crops. 1915. Yb. Sep. 682.* 5¢.

Livestock and miscellaneous data. 1915. Yb. Sep. 684.

Graphic summary of world agriculture. 1916. Yb. Sep. 713.* 15¢.

Livestock and miscellaneous data. 1916. Yb. Sep. 721.

Statistics of grain crops. 1917. Yb. Sep. 759.

Statistics of grain crops. 1918. Yb. Sep. 791.* 5¢.

Statistics of crops other than grain crops. 1918. Yb. Sep. 792.* 5¢.

Livestock statistics. 1918. Yb. Sep. 793.* 5¢.

Miscellaneous agricultural statistics. 1918. Yb. Sep. 795.* 5¢.

Prewar crop estimates in Germany. 1919. Yb. Sep. 801. 5¢.

Statistics of grain crops. 1919. Yb. Sep. 826.* 10¢.

Statistics of crops other than grain crops. 1919. Yb. Sep. 827.* 10¢.

Livestock statistics. 1919. Yb. Sep. 828.* 5¢.

Miscellaneous agricultural statistics. 1919. Yb. Sep. 830.* 5¢.

Statistics of grain crops. 1920. Yb. Sep. 861.* 10¢.

Statistics of crops other than grain crops. 1920. Yb. Sep. 862.* 10¢.

Livestock statistics. 1920. Yb. Sep. 863.* 10¢.

Miscellaneous agricultural statistics. 1920. Yb. Sep. 865.* 5¢.

Yearbook Separates—Continued.

- Statistics of grain crops. 1921. Yb. Sep. 868. 10¢.
 Statistics of crops other than grain crops. 1921. Yb. Sep. 869. 15¢.
 Livestock statistics. 1921. Yb. Sep. 870. 10¢.
 Miscellaneous agricultural statistics. 1921. Yb. Sep. 871. 5¢.
 Graphic summary of American agriculture, based largely on census of 1920. Yb. Sep. 878.* 20¢.
 Statistics of grain crops. 1922. Yb. Sep. 881. 10¢.
 Statistics of crops other than grain crops. 1922. Yb. Sep. 884. 15¢.
 Miscellaneous agricultural statistics. 1922. Yb. Sep. 887. 10¢.
 Livestock statistics. 1922. Yb. Sep. 888. 15¢.
 Forest statistics. 1922. Yb. Sep. 889.* 5¢.
 Bread grains (statistics). 1923. Yb. Sep. 898. 10¢.
 Grains other than bread grains (statistics). 1923. Yb. Sep. 899. 10¢.
 Fruits and vegetables (statistics). 1923. Yb. Sep. 900.* 10¢.
 Crops other than grains, fruits, and vegetables (statistics). 1923. Yb. Sep. 901. 10¢.
 Cattle and hogs (statistics). 1923. Yb. Sep. 902.* 10¢.
 Horses, sheep, and poultry (statistics). 1923. Yb. Sep. 903.* 10¢.
 Miscellaneous agricultural statistics. 1923. Yb. Sep. 906. 10¢.
 Statistics of grains. 1924. Yb. Sep. 907.* 15¢.
 Statistics of crops other than grains. 1924. Yb. Sep. 908.* 20¢.
 Farm animals and their products (statistics). 1924. Yb. Sep. 909.* 20¢.
 Forest statistics. 1924. Yb. Sep. 910. 5¢.
 Miscellaneous agricultural statistics. 1924. Yb. Sep. 912.* 15¢.
 Statistics of grains. 1925. Yb. Sep. 920. 15¢.
 Statistics of fruits and vegetables. 1925. Yb. Sep. 921. 15¢.
 Statistics of field crops other than grain crops. 1925. Yb. Sep. 922. 15¢.
 Statistics of farm animals and their products. 1925. Yb. Sep. 923. 20¢.
 Farm management and costs statistics. 1925. Yb. Sep. 925. 10¢.
 Miscellaneous agricultural statistics. 1925. Yb. Sep. 926. 25¢.

SUGAR CROPS*Farmers Bulletins:*

- Sugar-beet growing under irrigation. FB 567. 5¢.
 Sugar-beet growing under humid conditions. FB 568.* 5¢.
 Leaf spot, disease of sugar beet. FB 618. 5¢.
 Grasshoppers on sugar beets and truck crops. FB 691.* 5¢.
 Muscadine grape sirup. FB 758.* 5¢.
 Control of sugar-beet nematode. FB 772.* 5¢.
 Growing sugar cane for sirup. FB 1034. 5¢.

Farmers Bulletins—Continued.

- Beet-top silage and other by-products of sugar beet. FB 1095. 5¢.
- Sugar-beet seed growing in Rocky Mountain States. FB 1152.* 5¢.
- Improved method of making sugar-beet sirup. FB 1241. 5¢.
- Sugar-beet nematode in Western States. FB 1248. 5¢.
- Root knot. FB 1345. 5¢.
- Production of maple sirup and sugar. FB 1366. 5¢.
- Sorgo-sirup manufacture. FB 1389. 5¢.
- Control of sugar-beet nematode by crop rotation. FB 1514. 5¢.

Department Bulletins:

- Loss in tonnage of sugar beets by drying. DB 199.* 5¢.
- Sugar beets, preventable losses in culture. DB 238.* 10¢.
- Sugar-beet thrips. DB 421.* 5¢.
- Maple sugar. DB 466. 5¢.
- Growing sugar beets in Utah and Idaho, 1914-15. DB 693.* 10¢.
- Growing sugar beets in Colorado. 1914-15. DB 726.* 10¢.
- Growing sugar beets in Billings region of Montana. DB 735.* 10¢.
- Growing sugar beets in three California districts. DB 760.* 10¢.
- Mosaic disease of sugar cane and other grasses. DB 829. 10¢.
- Results of work in blister beetles in Kansas. DB 967.* 10¢.
- Beet-sugar industry in United States in 1920. DB 995.* 20¢.
- Production of sirup from sweet potatoes. DB 1158. 10¢.
- Check list of diseases of economic plants in United States. DB 1366. 15¢.
- Sugar cane sirup manufacture. DB 1370.* 10¢.
- Some panicle characters of sorgo. DB 1386. 20¢.

Department Circulars:

- Cooperative cane-sirup canning. DC 149. 5¢.
- Dormancy period of sugar-beet nematode in Utah. DC 262. 5¢.
- Hot-water treatment of sugar cane for insect pests. DC 303.* 5¢.
- Composition of sugar-beet pulp and tops and of silage therefrom. DC 319. 5¢.
- Hot-water treatment of dormant and sprouted seed cane. DC 337. 5¢.
- Root disease of sugar cane in Louisiana. DC 366. 5¢.
- Resistance in sugar beets to curly-top. DC 388. 5¢.
- Rare cases of mosaic disease in highly resistant varieties of sugar cane. DC 392.* 5¢.

Yearbook Separates:

- Apple sirup and concentrated cider. 1914. Yb. Sep. 639.* 5¢.
- Sugar. 1923. Yb. Sep. 893. 20¢.

TOBACCO

(See also Marketing)

Farmers Bulletins:

- Production of cigar-leaf tobacco in Pennsylvania. FB 416. 5¢.
 Tobacco curing. FB 523. 5¢.
 Tobacco culture. FB 571. 5¢.
 Tobacco budworm in southern tobacco districts. FB 819. 5¢.
 Tobacco beetle. FB 846. 5¢.
 Steam sterilization of seed beds for tobacco and other crops. FB 996. 5¢.
 Root knot. FB 1345. 5¢.
 Tobacco flea beetle in southern cigar-wrapper district. FB 1352. 5¢.
 Tobacco hornworm insecticide. FB 1356. 5¢.
 Tobacco flea beetle in dark fire-cured tobacco districts of Kentucky and Tennessee. FB 1425. 5¢.
 Tobacco cutworms. FB 1494. 5¢.
 Green June beetle larva in tobacco plant beds. FB 1489. 5¢.

Department Bulletins:

- Tobacco splitworm. DB 59.* 5¢.
 So-called tobacco wireworm in Virginia. DB 78.* 5¢.
 Research studies on curing of leaf tobacco. DB 79.* 5¢.
 White Burley tobacco resistant to root rot. DB 765.* 5¢.
 Tobacco diseases and their control. DB 1256.* 25¢.
 Loss of nicotine from nicotine dusts during storage. DB 1312. 5¢.
 Check list of diseases of economic plants in United States. DB 1366. 15¢.
 Brown rot of tobacco and other plants. DB 1410. 10¢.

Department Circulars:

- Dangerous tobacco disease appears in United States. DC 174.* 5¢.
 Tobacco blue-mold disease in Georgia-Florida district. DC 181.* 5¢.

Miscellaneous Circulars:

- Type classification of American-grown tobacco. MC 55. 5¢.

Yearbook Separates:

- Three centuries of tobacco. 1919. Yb. Sep. 805.* 5¢.
 History and status of tobacco culture. 1922. Yb. Sep. 885.* 10¢.

TREES AND FORESTRY

(See also Marketing)

Farmers Bulletins:

- Tree planting on rural school grounds. FB 134.* 5¢.
 Primer of forestry (pt. 1.) FB 173.* 5¢.
 Primer of forestry; pt. 2, Practical forestry. FB 358.* 5¢.
 Forest nurseries for schools. FB 423.* 5¢.
 Danger of general spread of gypsy and brown-tail moths through imported nursery stock. FB 453.* 5¢.

Farmers Bulletins—Continued.

- Basket-willow culture. FB 622. 5¢.
- The native persimmon. FB 685. 5¢.
- Bagworm, an injurious shade-tree insect. FB 701. 5¢.
- The catalpa sphinx. FB 705. 5¢.
- The leopard moth; insect enemy of shade trees. FB 708. 5¢.
- White-pine blister rust. FB 742.* 5¢.
- Preservative treatment of farm timbers. FB 744. 5¢.
- Advice to forest planters in the plains region. FB 888.* 5¢.
- California-oak worm. FB 1076. 5¢.
- Growing and planting hardwood seedlings on farm. FB 1123. 5¢.
- Aspen borer. FB 1154.* 5¢.
- Insects injurious to deciduous shade trees. FB 1169. 5¢.
- Care and improvement of the farm woods. FB 1177. 5¢.
- Tree surgery. FB 1178. 5¢.
- Southern-pine beetle. FB 1188. 5¢.
- Borers in mesquite cordwood and posts. FB 1197. 5¢.
- Trees for town and city streets. FB 1208. 5¢.
- Planting and care of street trees. FB 1209. 5¢.
- Measuring and marketing farm timber. FB 1210. 5¢.
- Slashed pine. FB 1256. 5¢.
- Sawfly injurious to young pines. FB 1259.* 5¢.
- Tree planting in Great Plains region. FB 1312. 5¢.
- Controlling the gypsy moth and the brown-tail moth. FB 1335. 5¢.
- Root knot. FB 1345. 5¢.
- Black walnut for timber and nuts. FB 1392. 5¢.
- Windbreak as a farm asset. FB 1405. 5¢.
- Growing and planting coniferous trees on farm. FB 1453. 10¢.
- Selling black-walnut timber. FB 1459. 5¢.
- Preventing damage by termites or white ants. FB 1472. 5¢.
- Preventing damage by lyctus powder-post beetles. FB 1477. 5¢.
- Planting the roadside. FB 1481. 10¢.
- Trees for roadside planting. FB 1482. 10¢.
- Longleaf pine primer. FB 1486. 5¢.
- Arbor Day; its purpose and observance. FB 1492. 5¢.
- Loblolly pine primer. FB 1517. 10¢.

Department Bulletins:

- Economic study of acacias. DB 9.* 10¢.
- Uses of commercial woods; beech, birches, maples. DB 12.* 10¢.
- Suitability of long-leaf pine for paper pulp. DB 72.* 5¢.
- Death of chestnuts and oaks due to *Armillaria mellea*. DB 89.* 5¢.
- Sequoia-pitch moth on pine in western Montana. DB 111.* 5¢.
- Norway pine in the Lake States. DB 139.* 10¢.
- Forest planting in Eastern United States. LB 153.* 10¢.
- European pine-shoot moth menace to pine timber. DB 170.* 5¢.

Department Bulletins—Continued.

- Huisache girdler. DB 184.* 5¢.
 Gipsy-moth work in New England. DB 204.* 30¢.
 Production of lumber in 1913. DB 232.* 5¢.
 Lodgepole pine in Rocky Mountains. DB 234.* 15¢.
 Disease of pines caused by *Cronartium pyriforme*.
 DB 247.* 5¢.
 Food plants of gipsy moth in America. DB 250.* 10¢.
 Calosoma beetle in New England. DB 251.* 15¢.
 Southern cypress. DB 272.* 20¢.
 Dispersion of gipsy-moth larvæ by wind. DB 273.* 15¢.
 The northern hardwood forest. DB 285.* 20¢.
 Strength tests of structural timbers treated by commercial wood-preserving processes. DB 286.* 5¢.
 Zimmerman pine moth. DB 295.* 10¢.
 Shortleaf pine; economic importance and forest management. DB 308.* 15¢.
 Larch mistletoe. DB 317.* 5¢.
 Spruce and balsam fir trees of Rocky Mountain region. DB 327.* 20¢.
 Mistletoe injury to conifers in Northwest. DB 360.* 15¢.
 Forest conservation in Southern-pine region. DB 364.* 5¢.
Endothia parasitica and related species. DB 380.* 35¢.
 Cottonwood borer. DB 424.* 5¢.
 Lumbering in sugar and yellow-pine region of California. DB 440.* 25¢.
 True mahogany. DB 474.* 5¢.
 Reforestation on national forests. DB 475.* 20¢.
 Nursery practice on national forests. DB 479.* 25¢.
 Solid-stream spraying against gipsy moth and brown-tail moth in New England. DB 480.* 15¢.
 Status and value of farm woodlots in eastern United States. DB 481.* 15¢.
 Preliminary report on occurrence of red rot in western yellow pine. DB 490. 5¢.
 Investigations of rotting of slash in Arkansas. DB 496.* 5¢.
 Western yellow-pine car sills, joists, and small clear pieces. DB 497.* 5¢.
 Production of lumber, lath, and shingles in 1915, and lumber in 1914. DB 506.* 10¢.
 Yields from destructive distillation of certain hardwoods. DB 508.* 5¢.
 Timber storage conditions in Eastern and Southern States, decay problems. DB 510.* 20¢.
 Poles purchased, 1915. DB 519.* 5¢.
 Utilization of the ash. DB 523.* 15¢.
 Red spruce. DB 544. 20¢.
 Crossties purchased and treated in 1915. DB 549.* 5¢.
 Seasoning of wood. DB 552.* 10¢.
 Mechanical properties of woods grown in United States. DB 556.* 10¢.
 Lumber used in manufacture of wooden products. DB 605.* 5¢.
 Resistance of hardwoods to injection with creosote. DB 606.* 15¢.
 Walnut blight in eastern United States. DB 611. 5¢.

Department Bulletins—Continued.

- Forestry and community development. DB 638.* 10¢.
 Production of lumber, lath, and shingles in 1916. DB 673.* 5¢.
 Relation of shrinkage and strength properties of wood to its specific gravity. DB 676.* 10¢.
 Utilization of elm. DB 683.* 10¢.
 Logging in the Douglas-fir region. DB 711.* 30¢.
 Small sawmills. DB 718.* 10¢.
 Heart rot in western hemlock. DB 722.* 10¢.
 Effect of grazing upon aspen reproduction. DB 741. 10¢.
 Use of wood for fuel. DB 753.* 10¢.
 Pulpwood consumption and wood-pulp production, 1917. DB 758.* 5¢.
Compsilura concinnata; tachinid parasite of gipsy moth and brown-tail moth. DB 766.* 10¢.
 Production of lumber, lath, and shingles in 1917. DB 768.* 10¢.
 Study of the rots of western white pine. DB 799.* 5¢.
 Street trees. DB 816.* 15¢.
 Cypress bark scale. DB 838.* 10¢.
 Production of lumber, lath, and shingles in 1918. DB 845.* 10¢.
 Forestry lessons on home woodlands. DB 863. 10¢.
 Dry rot of incense cedar. DB 871.* 15¢.
 Utilization of sycamore. DB 884. 5¢.
 Forest service water spray dry kiln. DB 894.* 10¢.
 Turpentine. DB 898. 15¢.
 Gipsy moth tree-banding material. DB 899.* 15¢.
 Utilization of black walnut. DB 909.* 30¢.
 Black walnut; growth and management. DB 933.* 20¢.
 Damping-off in forest nurseries. DB 934.* 10¢.
 Regional development of pulp-wood resources of Tongass National Forest, Alaska. DB 950. 10¢.
 Investigations of the white-pine blister rust. DB 957.* 20¢.
 Manufacture of ethyl alcohol from wood waste. DB 983.* 15¢.
 Pine oil and pine distillate product emulsions. DB 989. 5¢.
 Distillation of stumpwood and logging waste of western yellow pine. DB 1003.* 15¢.
 Utilization of basswood. DB 1007. 20¢.
Apanteles melanoscelus; parasite of gypsy moth. DB 1028.* 10¢.
 Coal-tar and water-gas tar creosotes. DB 1036.* 20¢.
 Sap stain, mold, and incipient decay in green wood. DB 1037.* 15¢.
 Identification of true mahogany, certain so-called mahoganies, and some common substitutes. DB 1050.* 10¢.
 Fungi of economic importance in decay of building timbers. DB 1053.* 15¢.
Chaulmoogra tree and some related species. DB 1057.* 15¢.
 Sitka spruce; uses, growth, and management. DB 1060.* 25¢.
 Long-leaf pine. DB 1061. 25¢.
 Oleoresin production. DB 1064.* 20¢.

Miscellaneous Circulars—Continued.

- Importance of forestry and national forests. MC 15.* 5¢.
 Tree distribution under Kinkaid Act of 1911. MC 16.* 5¢.
 Forest fires in intermountain region. MC 19.* 5¢.
 Naval stores act, effective March 1, 1924. MC 22.* 5¢.
 Demonstration courses in wood utilization. MC 29.* 5¢.
 Let's know some trees. MC 31.* 5¢.
 Wichita National Forest and game preserve. MC 36.* 5¢.
 Report of National Conference on Utilization of Forest Products, Washington, D. C., Nov. 19 and 20, 1924. MC 39. 20¢.
 White pine is profitable if protected from blister rust. MC 40. 5¢.
 Forest fire control. MC 44.* 5¢.
 What the national forests mean to the intermountain region. MC 47.* 5¢.
 What the national forests mean to Montana. MC 48.* 10¢.
 When fire is banished from the land of the white oak. MC 53.* 5¢.
 National forests of Idaho. MC 61.* 10¢.
 Identification of furniture woods. MC 66. 25¢.
 National forest resources of Utah. MC 71. 10¢.
 Harvesting timber crops in national forests of East and South. MC 75.* 5¢.
 A forestry program for women's organizations. MC 91. 5¢.

Yearbook Separates:

- Progress of forestry in 1904. Yb. Sep. 372.* 5¢.
 Chestnut bark disease. 1912. Yb. Sep. 598. 10¢.
 Farm wood-lot problem. 1914. Yb. Sep. 651.* 10¢.
 Farm woodlands and the war. 1918. Yb. Sep. 779.* 5¢.
 The open road through the Nation's forest. 1919. Yb. Sep. 806.* 5¢.
 Wood for the Nation. 1920. Yb. Sep. 835. 5¢.
 How public forests are handled. 1920. Yb. Sep. 847.* 5¢.
 Putting wood waste to work. 1920. Yb. Sep. 856. 5¢.
 Timber, mine or crop. 1922. Yb. Sep. 886. 15¢.

Miscellaneous:

- Forest trees of the Pacific Slope.* 60¢.
 National forest receipts for the benefit of schools and roads.
 Instructions for appraising stumpage on national forests.* 10¢.
 Guidebook for identification of woods used for ties and timbers.* 30¢.
 What the national forests mean to the water user.* 10¢.
 Vacation in the national forests. (Leaflet.)
 Telephone trouble book, District 1.* 25¢.
 Trail construction on the national forests.* 25¢.
 Instructions for making timber surveys in national forests, including classification of forest types.* 25¢.
 National forests of Southern Appalachians, what they mean to the East and South.* 15¢.
 National forests of Arizona.* 5¢.

Miscellaneous—Continued.

- Ideal vacation land, national forests in Oregon.* 15¢.
- Oregon caves.* 10¢.
- Help prevent woods fires. (Leaflet.)
- Pines for profit. (Leaflet.)
- Sharpening cross-cut saws.* 25¢.
- The story of the range.* 25¢.
- Grazing use book. (Revised 1926.)

WEATHER*Farmers Bulletins:*

- Frost and prevention of damage by it. FB 1096. 5¢.
- Agricultural almanac for 1921. FB 1202.* 10¢.
- Protection of buildings and farm property from lightning. FB 1512. 10¢.

Department Bulletins:

- Frost protection in lemon orchards. DB 821.* 10¢.
- Frost injury to tomatoes. DB 1099.* 5¢.
- Formation and pathological anatomy of frost rings in conifers injured by late frosts. DB 1131. 10¢.
- Weather damage to cotton. DB 1438. 5¢.

Department Circulars:

- Frost resistance in flax. DC 264. 5¢.
- Weather conditions and forest fires in California. DC 354.* 5¢.

Yearbook Separates:

- Weather and agriculture. 1924. Yb. Sep. 918. 20¢.

Miscellaneous:

- Relation between precipitation over watershed of Ohio River above and streamflow at Cincinnati. Weather B. 40.* 15¢.
- Forecasting frost in North Pacific States. Weather B. 41.* 10¢.
- Weather forecasting, with introductory notes on atmospheres. Weather B. 42.* 5¢.
- Climate of San Francisco. Weather B. 44.* 5¢.
- Instructions for obtaining and tabulating records from recording instruments. Weather Cir. A.* 10¢.
- Instructions for cooperative observers. Weather Cir. B and C.* 10¢.
- Instructions for installation and maintenance of wind measuring and recording apparatus. Weather Cir. D.* 15¢.
- Instruction for wiring meteorological instruments. Appendix 2, Weather Cir. D.* 15¢.
- Measurement of precipitation. Weather Cir. E.* 5¢.
- Barometers and measurement of atmospheric pressure. Weather Cir. F.* 15¢.
- Care and management of electrical sunshine recorders. Weather Cir. G.* 5¢.
- Instructions for erecting and using Weather Bureau Nephoscope, 1919 pattern. Weather Cir. I.* 10¢.
- Instructions for installation and maintenance of Marvin water-stage registers, with specifications. Weather Cir. J.* 10¢.
- Instruction for installation and operation of Class "A" evaporation stations. Weather Cir. L.* 10¢.

Miscellaneous—Continued.

- Instructions to marine meteorological observers. Weather Cir. M.* 15¢.
- Psychrometric tables for obtaining the vapor pressure, relative humidity, and temperature of the dew-point. W. B. 235.* 10¢.
- Same, abridged separates, pressure 23, 25, 27, 29, and 30 inches.* 5¢ each.
- Summaries of climatological data for United States by sections, 106 separate parts, each based on data from the beginning of observations to end of 1920. Weather Bul. W.* 5¢ for each part; \$3 for set.
- Relative humidities and vapor pressures over the United States, including discussion of data from recording hair hygrometers. Weather Review Sup. 6.* 25¢.
- Periodical events and natural law as guides to agricultural research and practice. Weather Review Sup. 9.* 25¢.
- Predicting minimum temperatures from hygrometric data. Weather Review Sup. 16.* 25¢.
- Stream-flow experiment at Wagon Wheel Gap, Colo. Weather Review Sup. 17.* 25¢.
- Bibliography of the climate of South America. Weather Review Sup. 18.* 15¢.
- An aerological survey of the United States Weather Review Sup. 20.* 25¢.
- Preparation and significance of free-air pressure maps for Central and Eastern United States Weather Review Sup. 21.* 25¢.
- Spring floods of 1922. Weather Review Sup. 22.* 25¢.
- Temperature of Mexico. Weather Review Sup. 23.* 25¢.
- West Indian hurricanes and other tropical cyclones of the North Atlantic Ocean. Weather Review Sup. 24.* 25¢.
- Normals of daily temperature for United States Weather Review Sup. 25.* 20¢.
- An aerological survey of the United States, Part II. Weather Review Sup. 26.* 20¢.
- Aerology Nos. 2, 4, 5, 6, 7, 8, 9, and 10. Weather Review Sup. Nos. 5, 8, 10, 11, 12, 13, 14, and 15, respectively.* 25¢ each.
- River stages at river-gage stations on principal rivers of the United States, 1919. Volume 17.* 50¢.
- Same for 1920. Volume 18.* 25¢.
- Same for 1921. Volume 19.* 40¢.
- Same for 1922. Volume 20.* 40¢.
- Same for 1923. Volume 21.* 35¢.
- Same for 1924. Volume 22.* 35¢.
- Same for 1925. Volume 23.* 50¢.
- Annual report of Weather Bureau containing summary of meteorological data from Weather Bureau stations.* (buckram) \$1.00.
- Weather forecasting in the United States.* \$1.25.
- Cloud forms; 12 half-tone plates 20 by 26 inches.* 5¢.
- Cloud forms, descriptive pamphlet with half-tone plates.* 25¢.

WEEDS

Farmers Bulletins:

- Method of eradicating Johnson grass. FB 279. 5¢.
- Wild onion, methods of eradication. FB 610. 5¢.
- Weeds, how to control them. FB 660. 5¢.
- Eradication of ferns from pasture lands in Eastern States. FB 687. 5¢.
- Controlling wild oat in hard spring wheat area. FB 833.* 5¢.
- Eradication of Bermuda grass. FB 945. 5¢.
- Canada thistle and methods of eradication. FB 1002. 5¢.
- Carpet grass. FB 1130. 5¢.
- Dodder. FB 1161. 5¢.
- Poison ivy and poison sumac. FB 1166. 5¢.
- Quack grass. FB 1307. 5¢.

Department Circulars:

- Chicory; control and eradication. DC 108. 5¢.
- Hawkweed, or paintbrushes. DC 130.* 5¢.
- Lawn pennywort. DC 165.* 5¢.

PERIODICAL PUBLICATIONS

Following is a brief description of each periodical issued by the United States Department of Agriculture. The department is limited to a free mailing list of not more than 2,000 outside of its own employees and cooperators for each periodical. Therefore it usually is necessary for individuals to subscribe from the Superintendent of Documents, Government Printing Office, at the price given in each instance.

If you are engaged in agricultural work write to the department, which will notify you if you are eligible for a free copy of any periodical in which you may be interested. Otherwise, send the necessary remittance direct to the Superintendent of Documents.

AGRICULTURAL SITUATION

The Agricultural Situation, a 24-page bulletin issued monthly by the Bureau of Agricultural Economics, contains a brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products. Its general purpose is to furnish extension workers and others with a very concise picture of economic conditions in agriculture from month to month. Free distribution is limited to department employees, State college workers, cooperators, libraries, and the press. 25¢ per year, domestic; 40¢ per year, foreign.

CLIMATOLOGICAL DATA

Climatological Data contains complete weather statistics from 42 separate sections, corresponding, as a rule, to a State, and issued monthly, with an annual summary. One section, 5¢ a month, 50¢ a year. Forty-two sections, 35¢ a month, \$4 a year, including annual summary. Annual summary for the 42 sections, 50¢.

CLIP SHEET

The Clip Sheet is made up of short, interesting stories on the United States Department of Agriculture and the application of new ideas and discoveries in the field of agriculture. From 8 to 10 stories, varying from fillers of a few lines to articles of 200 to 300 words, are included in each weekly issue. Free distribution to newspapers and other interested publications and writers. (No subscription list.)

CROPS AND MARKETS

Crops and Markets contains statistics concerning crops and livestock estimates and market information. It contains reports on supplies, stocks, commercial movements, condition and prices of agricultural products covered in the work of marketing and crop estimating, and studies of prices and demand both foreign and domestic. It is of particular interest to economists, statisticians, and persons whose business is affected by agricultural production and marketing. Free distribution is restricted to collaborators with the department. Issued monthly. 60¢ per year, domestic; 85¢ per year, foreign.

EXPERIMENT STATION RECORD

The Experiment Station Record is a technical review of the world's scientific literature pertaining to agriculture. It is issued in two volumes a year of 10 numbers each, and each volume contains about 3,500 abstracts of current research in the various fields of agriculture, together with brief notes on the progress of agricultural education and research and monthly editorials dealing with some phase of its advancement.

The Record is particularly designed for the use of research workers, teachers, extension specialists, and others desiring to keep abreast of the new information in the various fields of agriculture, and as a work of reference for ascertaining the status of research in these fields since it began publication in 1889. Free distribution is restricted mainly to workers in agricultural colleges and experiment stations and similar

institutions, libraries, and exchanges. 10¢ per copy
75¢ per volume, domestic; \$1.25 per volume, foreign

FOREST WORKER

The Forest Worker, a bimonthly magazine of 24 pages, is published in the interest of an interchange of information and ideas among State forestry organizations, extension foresters, forest schools, forestry associations, the United States Forest Service, and all organizations and individuals interested in forestry. It is devoted especially to news of State forestry work, forestry education and extension, and private forestry. It presents also news of the work of the Forest Service and of developments in the general field of forestry both in the United States and in foreign countries, and notices and reviews of books, bulletins, and magazine articles on forestry and allied subjects. Distribution is free to certain Government officials and employees and to such persons and organizations as State forestry and conservation officials, extension directors, forest schools, and forestry associations. 5¢ per copy, 25¢ per year, domestic; 7¢ per copy, 35¢ per year, foreign.

JOURNAL OF AGRICULTURAL RESEARCH

The Journal of Agricultural Research is a 100-page semimonthly publication containing articles on technical agricultural research carried on by the United States Department of Agriculture or the State experiment stations, or both cooperatively. It is therefore of primary interest only to agricultural scientists and advanced students. Free distribution of the Journal is limited to certain libraries and to institutions or departments doing research work. 20¢ per copy, \$4 per year, domestic; \$5.25 per year, foreign.

Each article in the Journal is reprinted as a "separate." These reprints or separates are distributed free to those desiring them as long as the limited supply lasts. Anyone interested can have his name placed on a mailing list to receive notice of the issuance of new articles. Requests to be placed on this list should specify the subjects desired.

OFFICIAL RECORD

The Official Record contains official orders and miscellaneous information concerning the activities of the department, and such other matter as should be brought to the attention of employees and others who have to do with the department's work. Issued weekly. 50¢ per year, domestic; \$1.10 per year, foreign.

PUBLIC ROADS

Public Roads is a monthly magazine dealing with highway research. The results of investigations relating to the physical and economic problems of road building conducted by the Bureau of Public Roads and contributors outside of the bureau are made available to road builders through this medium. Free distribution is restricted to State and county officials actually engaged in planning or constructing public highways, instructors in highway engineering, and periodicals upon an exchange basis. 10¢ per copy, \$1 per year, domestic; \$1.50 per year, foreign.

SNOW AND ICE BULLETIN

The Snow and Ice Bulletin gives synopsis of snow-fall and ice in United States, showing areas covered by snow, depth of snow, thickness of ice in rivers, etc. Of value to those interested in winter-wheat crop, ice dealers, and to manufacturers of articles, the sale of which is affected by presence or absence of snow and ice. Issued weekly for 18 weeks during winter season. 50¢ per season.

WEATHER REVIEW

The Monthly Weather Review contains contributions from the research staff of the Weather Bureau and special contributions of a general character on meteorology and climatology; also climatological data for Weather Bureau stations. 15¢ per copy; \$1.50 per year, domestic; \$2.25 per year, foreign.

WEEKLY WEATHER AND CROP BULLETIN

The Weekly Weather and Crop Bulletin gives detailed weather conditions of preceding week and their effect on development of crops and farm operations; shows variation of temperature and rainfall from normal week, total rainfall for season in comparison with normal, and discusses amount of sunshine and cloudiness. 50¢ per year.

SERVICE AND REGULATORY ANNOUNCEMENTS

Service and Regulatory Announcements contain such notices of judgment, decisions, and other information as is necessary in the enforcement of regulatory acts. Issued as necessary by Bureaus of Agricultural Economics, Animal Industry, Biological Survey, Chemistry, Dairying, and Plant Industry, Federal Horticultural Board and Insecticide and Fungicide Board.

Free distribution is limited to public officials whose duties make it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. The Bureau of Animal Industry issues one announcement each month, and the Superintendent of Documents carries a subscription list at 25¢ per year domestic and 40¢ per year foreign. Other bureaus issue announcements at irregular intervals; the price for each issue is 5¢ per copy.

YEARBOOK

The Yearbook of the department contains a general report of the operations of the department during the preceding calendar year, and articles of special interest and instruction to the farmers of the country.

Each article in the Yearbook is reprinted in separate form. Available articles are listed in the subject list of publications.

Distribution of the greater number of Yearbooks is controlled by Members of Congress. Apply either to your Senator or Representative in Congress or to the United States Department of Agriculture. The department's edition is barely sufficient to supply its employees and cooperators. On February 1, 1927, copies were available for the following years. Those indicated by a star are for sale only. See instructions for ordering on page 2.

*1895-----	\$0. 55	*1908-----	\$1. 25	1918-----	\$0. 85
*1898-----	. 60	*1909-----	1. 00	*1919-----	1. 00
*1899-----	. 75	*1910-----	1. 00	1920-----	1. 25
*1900-----	. 75	*1911-----	1. 00	1921-----	1. 25
*1901-----	. 80	1912-----	1. 00	1922-----	1. 25
*1902-----	. 85	*1913-----	. 75	1923-----	1. 25
*1903-----	. 75	*1914-----	. 75	1924-----	1. 50
*1904-----	. 65	*1915-----	. 75	1925-----	1. 50
*1906-----	1. 00	*1916-----	1. 00		
*1907-----	1. 00	1917-----	1. 00		

INVENTORY OF SEEDS AND PLANTS IMPORTED

This series is a record of new or little known seeds and plants procured mostly from abroad for the use of the department, State experiment stations, and for distribution to experimenters in appropriate locations throughout the United States and its possessions. Intended for distribution to the agricultural experiment stations and the more important private co-operators. There are four issues a year, each covering a three-month period.

Following is a list of those available on February 1, 1927. Those indicated by a star are for sale only. See instructions for ordering on page 2.

*1. Nos. 1 to 1000. 1899. 5¢.	*54. Jan. 1-Mar. 31, 1918. 15¢.
*2. Nos. 1001 to 1900. 1899. 5¢.	*55. Apr. 1-June 30, 1918. 10¢.
*8. Nos. 3401 to 4350. 1901. 10¢.	*56. July 1-Sept. 30, 1918. 10¢.
*14. Jan.-Mar., 1908. 10¢.	*57. Oct. 1-Dec. 31, 1918. 10¢.
*26. Jan.-Mar., 1911. 10¢.	*58. Jan. 1-Mar. 31, 1919. 10¢.
*28. July-Sept., 1911. 10¢.	*59. Apr. 1-June 30, 1919. 15¢.
*31. Apr.-June, 1912. 15¢.	*60. July 1-Oct. 31, 1919. 20¢.
*33. Oct.-Dec., 1912. 15¢.	*61. Nov. 1-Dec. 31, 1919. 20¢.
*34. Jan.-Mar., 1913. 10¢.	*62. Jan. 1-Mar. 31, 1920. 20¢.
*36. July-Sept., 1913. 15¢.	*63. Apr. 1-May 31, 1920. 20¢.
*37. Oct.-Dec., 1913. 10¢.	*64. June 1-Sept. 30, 1920. 15¢.
*39. Apr.-June, 1914. 25¢.	*65. Oct. 1-Dec. 31, 1920. 15¢.
*40. July-Sept., 1914. 20¢.	*66. Jan. 1-Mar. 31, 1921. 15¢.
*42. Jan.-Mar., 1915. 20¢.	*67. Apr. 1-June 30, 1921. 15¢.
*43. Apr.-June, 1915. 15¢.	*68. July 1-Sept. 30, 1921. 10¢.
*44. July-Sept., 1915. 15¢.	*69. Oct. 1-Dec. 31, 1921. 10¢.
*45. Oct.-Dec., 1915. 15¢.	*70. Jan. 1-Mar. 31, 1922. 5¢.
*46. Jan.-Mar., 1916. 10¢.	*71. Apr. 1-June 30, 1922. 10¢.
*47. Apr.-June, 1916. 15¢.	*72. July 1-Sept. 30, 1922. 10¢.
*48. July-Sept., 1916. 10¢.	*73. Oct. 1-Dec. 31, 1922. 10¢.
*49. Oct.-Dec., 1916. 25¢.	*74. Jan. 1-Mar. 31, 1923. 10¢.
*50. Jan. 1-Mar. 31, 1917. 20¢.	75. Apr. 1-June 30, 1923. 10¢.
*51. Apr. 1-June 30, 1917. 20¢.	76. July 1-Sept. 30, 1923. 5¢.
*52. July 1-Sept. 30, 1917. 15¢.	77. Oct. 1-Dec. 31, 1923. 5¢.
*53. Oct. 1-Dec. 31, 1917. 15¢.	78. Jan. 1-Mar. 31, 1924. 5¢.

NORTH AMERICAN FAUNA

This is a technical series of the Bureau of Biological Survey devoted principally to revisions of genera of mammals and to biological surveys of States and other major areas. Of interest chiefly to professional biologists.

Following is a list of those available on February 1, 1927. Those indicated by a star are for sale only. See instructions for ordering on page 2.

- *27. Biological investigation of Athabaska-Mackenzie region. \$1.25.
- *34. Revision of spiny pocket mice. 10¢.
- *35. Life zones and crop zones of New Mexico. 45¢.
- *36. Revision of American harvest mice, genus *Reithrodontomys*. 20¢.
- *38. Review of American moles. 20¢.
- *41. Review of grizzly and big brown bears of North America. 35¢.
- *42. Life zone investigations in Wyoming. 40¢.
- 43. Rice rats of North America. 20¢.
- *44. Revision of American flying squirrels. 15¢.
- 45. Biological survey of Alabama. 25¢.
- *46. Biological survey of Pribilof Islands, Alaska, 1. Birds and mammals; 2. Insects, arachnids, and chilopods. 40¢.
- 47. Revision of American pikas. 15¢.
- 48. Voles of the genus *Phenacomys*. 20¢.

MAPS, CHARTS, AND PHOTOGRAPHS

This is a partial list of maps, charts, and pictures relating to agriculture, nature study, geography, biology, and home economics, and the sources from which such material may be obtained for the use of schools. If no price is given they are for free distribution; if a price is given, remittance should be made direct to the office indicated. See instructions for ordering on page 2.

Geography of the World's Agriculture, 1917, Superintendent of Documents, Government Printing Office. \$1.

Atlas of American Agriculture, Superintendent of Documents, Government Printing Office:

Precipitation and humidity, 1922. \$1.50.

Natural vegetation, 1924. 50¢.

Cotton, 1918. 50¢.

Rural population, 1919. 50¢.

Graphic Summary of American Agriculture, Yearbook Separate 878, 1921. Superintendent of Documents, Government Printing Office. 20¢.

Graphic Summary of World Agriculture, Yearbook Separate 713, 1916. Superintendent of Documents, Government Printing Office. 15¢.

Pictures of improved livestock: (1) Judging dairy cows at a community picnic; (2) Purebred Percheron stallion; (3) Southdown sheep for mutton production; (4) Little pigs; (5) Flock of white Wyandottes; (6) Herd of Holstein-Friesian cows; (7) Angora goats; (8) Morgan horse; (9) Club boy with beef cattle; (10) Mules. Bureau of Animal Industry, United States Department of Agriculture.

Charts showing composition of food material, 1916. Set of 15. Superintendent of Documents, Government Printing Office. \$1.

Charts illustrating food selection and meal planning, 1921. Set of 8. Superintendent of Documents, Government Printing Office. 50¢.

Photographs of children's diet, 1919. 2 sets of 4 each in two sizes. Set 1, diet of white children. Set 2, diet of colored children. Office of Information, U. S. Department of Agriculture. Small set of 4, 72¢; large set of 4, \$8.

Chart showing 100 calorie portions of a few familiar foods, 1923. Superintendent of Documents, Government Printing Office. 10¢.

Posters showing insect pests and their work and methods of control; (1) grasshopper, (2) garden cutworm, (3) potato beetles, (4) wheat point worm, (5) Chalis-fly, (6) Hessian fly, (7) spray potato fields. Bureau of Entomology, Department of Agriculture.

Photographs of weed seed found in commercial seed. (6½ x 8½) 15 in set. Office of Information, United States Department of Agriculture. \$1.80.

Educational series from Weather Bureau: (1) Barometer table, (2) explanation of weather map and sample weather map, (3) cloud chart, (4) The Weather Bureau, pamphlet descriptive of work of Bureau. Weather Bureau, United States Department of Agriculture. 10¢ per set.

Daily weather map (Form C) first edition, shows weather conditions for U. S. and forecast for States east of Mississippi River, except Illinois, Wisconsin, Indiana, and upper and lower Michigan. Issued daily, except Sundays and holidays, at Washington, D. C. Superintendent of Documents, Government Printing Office. 25¢ per month; \$2.50 per year.

Daily weather map (Form C) second edition, shows weather conditions for U. S. and forecast for all States. Issued daily at Washington, D. C. Superintendent of Documents, Government Printing Office. 30¢ per month, \$3 per year.

Daily weather map (Map DD) shows weather conditions and forecast issued, except Sundays and holidays, at about 65 stations in United States. Superintendent of Documents, Government Printing Office. 20¢ per month, \$2 per year.

(Copies of the Daily Weather Maps can not be furnished in quantities unless the order is placed with the Superintendent of Document in advance of issue, and are sold at 1¢ each.)

Climatic charts for United States: 12 in series: (1) normal annual precipitation; (2) average annual number of days with precipitation; (3) normal annual temperature; (4) normal January temperature; (5) normal July temperature; (6) highest temperature ever observed; (7) lowest temperature ever observed; (8) mean relative humidity (per cent), January, 8 a. m., 75th meridian time; (9) mean relative humidity (per cent), January, 8 p. m., 75th meridian time; (10) mean relative humidity (per cent), July, 8 a. m., 75th meridian time; (11) mean relative humidity (per cent), July, 8 p. m., 75th meridian time; (12) average minimum temperature (Fahrenheit), January. Superintendent of Documents, Government Printing Office. Single charts 5¢ each, 50¢ per set.

Blank weather maps for use in meteorological studies will be furnished on receipt of price, viz, Washington base maps (Form C, 19 by 24 inches), \$1 per 100; station base maps (Map DD, 11 by 16 inches), 25 cents per 100. Blank maps, being of the nature of supplies, can not be furnished free. Draft or money order must be made payable to "Disbursing Clerk, U. S. Department of Agriculture, Washington, D. C.", and forwarded with order to U. S. Weather Bureau, Washington, D. C.

When more than 50 blank Washington base maps (Form C, 19 by 24 inches), or more than 150 blank station base maps (Map DD, 11 by 16 inches), are ordered at one time, shipment has to be made by express "collect" for express charges, and must be so authorized by purchaser. Full shipping instructions must accompany the order.

Colored poster showing life cycle of black stem rust and its host plants, wheat and common barberry. Bureau of Plant Industry, U. S. Department of Agriculture.

Colored poster of white pine blister rust for schools in white pine States, New England, New Jersey, New York, Pennsylvania, Michigan, Wisconsin, Minnesota. Bureau of Plant Industry, Department of Agriculture.

Information series from the Bureau of Public Roads. Drawings and mimeographed pamphlets describing the methods of building various types of farm structures and conveniences such as windmills, electric lighting plants, other lighting systems, well drilling machinery, garbage and refuse disposal, clearing land, and farm buildings of various kinds. Bureau of Public Roads, United States Department of Agriculture.

Desk size map showing the Federal-aid highway system and progress in its improvement for the entire United States. Also larger scale maps showing the system by various groups of States.

A series of maps is now being issued showing the condition of improvement of the system in various groups of States. Some are now available while others are in course of preparation. Bureau of Public Roads, United States Department of Agriculture.

Series of educational charts for schools consisting of one chart each: Light breeds of horses, draft breeds of horses, dual-purpose breeds of cattle, general-purpose breeds of chickens, meat breeds of chickens, egg breeds of chickens, comparison of bacon and lard types of hogs, breeds of sheep, cotton-producing areas and distributing centers, the cotton plant, cotton production, pests and diseases of cotton, cotton improvement, ginning and marketing cotton, four small grains, production of small grain, pests of small grain, harvesting small grain, grain marketing, the corn crop, corn and corn plants, corn pests, seed corn, corn production, 1¢ each. Group consisting of two charts each: Dairy breeds of cattle, beef breeds of cattle, breeds of hogs, harvesting corn, 1¢ each. Superintendent of Documents, Government Printing Office.

Four charts showing wholesale and retail cuts of beef, veal, lamb, and fresh pork. Superintendent of Documents, Government Printing Office. 50¢ per set.

Colored chart showing U. S. standards and grades for eggs. This brings out differences in egg equality as seen before the candle. Bureau of Agricultural Economics, U. S. Department of Agriculture.

Photographs of plants, animals, insects, and other subjects, like or similar to illustrations in department publications. Office of Information, United States Department of Agriculture. 5 by 7, 9¢; 6½ by 8½, 12¢; 8 by 10, 18¢; enlargements more.

Small map (in colors) showing national forests and related reservations in United States. Forest Service, United States Department of Agriculture.

Small map, showing, in green, the natural forest regions of the United States. Forest Service, United States Department of Agriculture.

Colored poster. "Prevent Forest Fires—It Pays," shows against a red background the blackened remains of forest trees after fire has passed through. Superintendent of Documents, Government Printing Office. Single copies, 5¢.

Colored poster, "Everybody Loses When Timber Burns," shows against a red background the blackened tree trunks left by a forest fire. Superintendent of Documents, Government Printing Office. Single copies, 5¢.

Colored poster, "Fire—The Outlaw. Don't Turn Him Loose," shows a large red wolf on a black background with a fringe of burned trees. Superintendent of Documents, Government Printing Office. Single copies, 5¢.

Colored poster, "Pines Pay," prepared for distribution in the South, shows the interior of a long-leaf pine forest. Forest Service, United States Department of Agriculture.

Colored poster, "Pines Pay," prepared for distribution in the North, shows the interior of a white pine forest. Forest Service, United States Department of Agriculture.

Sets of colored lantern slides, accompanied by lecture outlines and covering 14 subjects.¹

Traveling school exhibits, "Our Forests: What They Mean to Us." (Sets of 48 enlarged photographs showing forests of the United States, how they are used and how they may be preserved; 12 series of 4 pictures each.)¹

Traveling school exhibits, "Forestry in Nature Study." (Sets of 48 enlarged photographs suitable for use in nature study work; 12 series of 4 pictures each.)¹

Traveling school exhibits, "Farm Woodlands." (Sets of 28 enlarged photographs on management of farm woodlands; 7 series of 4 pictures each.)¹

Traveling school exhibits, "Commercially Important Woods of the United States." (Sets of 28 maps and charts showing samples of important commercial woods and related information; 7 series of 4 maps or charts each.)¹

Sets of wood samples, showing 30 representative American woods prepared for educational purposes and loaned to teachers for short periods.

Exhibit material of a general nature is available for the use of high schools and colleges, in the form of—

Colored panels, both large and small, dealing with woodland improvement, forest fires, lumbering, the uses of the national forests, and studies of long-leaf, short-leaf, loblolly, slash, Norway, and white pines.

Colored bromides and transparencies on turpentine, planting, second growth, forest-fire equipment, scenery, forest fires, erosion, denuded areas, and slogans for care with fire.

This material is loaned to any who are willing to pay transportation charges. Since in most cases it is heavier than the traveling exhibits, the transportation costs are greater. Lists giving size and approximate weights will be furnished on request by the Forest Service, United States Department of Agriculture.

¹ This material is loaned by the Forest Service, U. S. Department of Agriculture, for short periods on condition that the borrower agrees to pay transportation charges, to be responsible for the material while charged with it, and to forward it promptly at the direction of the Forest Service.

SOIL SURVEYS

Soil Survey reports consist of two parts: (1) A soil map in colors, showing the extent and distribution of the different soils in the area covered by the survey; (2) a printed report, containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils.

The majority of each report is distributed by the United States Senators and Representatives from the area surveyed; a limited number are available for distribution by the Bureau of Soils, United States Department of Agriculture. Editions are inadequate to meet the demand and therefore reports of not more than three separate areas and not to exceed one copy of each report may be sent free to one individual. The price at which these reports may be purchased is indicated, and if more than three reports are desired the request together with the necessary sum should be forwarded to the Superintendent of Documents, Government Printing Office. Where no price is given the report is included in some other survey, in which case that survey will be furnished or you will be informed where it may be procured. Those indicated by a star are available by purchase only.

Many counties not listed have been surveyed, but both the free and sale stocks are entirely exhausted. They may be consulted in certain public libraries which keep a file of all soil surveys.

ADVANCE SHEETS OF SOIL SURVEYS

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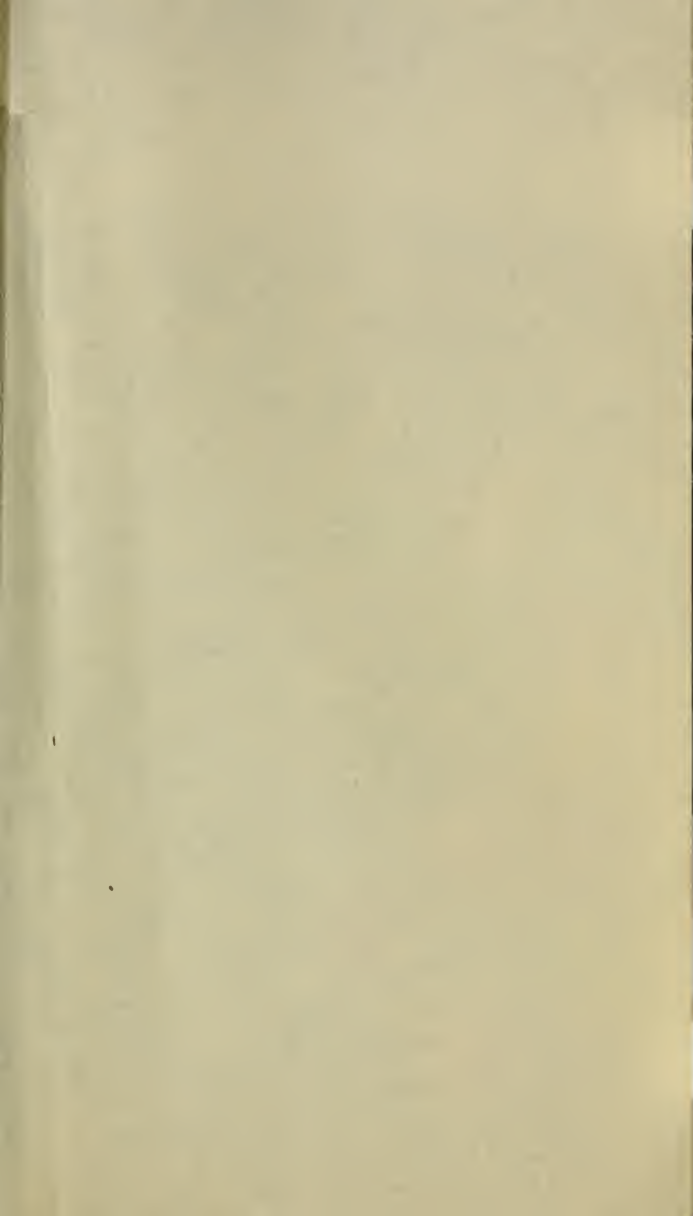
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